

## D-Lactate dehydrogenase from Bacteria, Recombinant

Cat. No. NATE-1042

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  $c \leftrightarrow pyruvate + 2$  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**

**Species** Bacteria

**Source** E. coli

**Form** Lyophilized powder

**EC Number** EC 1.1.1.28

*CAS No.* 9028-36-8

Molecular

44 kD (SDS-PAGE)

Weight

**Activity** > 800 U/mg Protein

**Contaminants** Malate dehydrogenase : < 0.03% Myokinase : < 0.02% Pyruvate kinase: <0.003% Alanine

 $aminotrans ferase: < 0.001\% \ Asparate \ aminotrans ferase: < 0.001\% \ a-Hydroxyglutamate$ 

dehydrogenase: <0.001%

**pH Stability** 5.0 - 10.0

Optimum pH 7

Thermal <50°C

stability

*Optimum* 45°C

temperature

## Storage and Shipping Information

**Storage** Below -20°C

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