

D-Lactate dehydrogenase from *Leuconostoc mesenteroides*, Recombinant

Cat. No. NATE-1104

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; D-lactate Dehydrogenase

Product Information

Source

Leuconostoc mesenteroides

Form

Liquid

EC Number

EC 1.1.1.28

CAS No.

9028-36-8

Molecular Weight

~ 36.5kD

Activity

~ 1,500 U/mg protein

Unit Definition

One Unit is defined as the amount of enzyme required to produce one μ mole of D-lactate from pyruvic acid per minute in the presence of NADH in sodium phosphate buffer at pH 7.0 and 25°C.

Storage and Shipping Information

Storage

4°C