

## **D-lactate Dehydrogenase from E. coli, Recombinant**

Cat. No. NATE-1654 Lot. No. (See product label)

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Introduction	
Description	In enzymology, a D-lactate dehydrogenase is an enzyme that catalyzes the chemical reaction: (D)-lactate + 2 ferricytochrome c↔ 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	E. coli
Form	Liquid
Formulation	4.0 mg/ml in 20 mM potassium phosphate, 100 mM NaCl, pH 8.0 and 10% glycerol
EC Number	EC 1.1.1.28
Molecular Weight	39.1 kDa
Purity	> 95% by SDS-PAGE
Activity	> 200 units/mg
Concentration	1 mg/ml
Unit Definition	One unit will convert 1.0 umole of pyruvate to L-lactate and beta-NAD per minute at pH 7.5 at 37°C.
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## Storage and Shipping Information

Storage

Store at +4°C for short term (1-2 weeks). For long term storage, aliquot and store at -70°C. Avoid repeated freeze/thaw cycles.