

Native Microorganism D-lactate dehydrogenase

Cat. No. DIA-207

Lot. No. (See product label)

Introduction

Description

Native Microorganism D-Lactate Dehydrogenase for research on lactate metabolism and enzymatic mechanisms. Perfect for microbiology and biochemistry studies. Creative Enzymes ensures high-quality solutions.

Applications

This enzyme is useful for enzymatic determination of numerous metabolites, e.g. ATP, ADP, glucose, creatinine, pyruvate, lactate and glycerol, and of enzyme activities, e.g. GPT, PK and CPK when coupled with the related enzymes.

Synonyms

Lactate dehydrogenase; EC 1.1.1.27; LDH; LD

Product Information

Source

Microorganism

Appearance

White amorphous powder, lyophilized

EC Number

EC 1.1.1.28

CAS No.

9028-36-8

Molecular Weight

approx. 140 kDa (by gel filtration)

Activity

Gradell 400U/mg-solid or more

Contaminants

NADH oxidase < $1.0 \times 10^{-3}\%$ Malate dehydrogenase < $1.0 \times 10^{-2}\%$ GOT < $5.0 \times 10^{-3}\%$ GPT < $5.0 \times 10^{-3}\%$ Myokinase < $1.0 \times 10^{-2}\%$ Pyruvate kinase < $1.0 \times 10^{-3}\%$

Isoelectric point

4

pH Stability

pH 5.0-9.0 (25°C, 48hr)

Optimum pH

6.0-7.0

Thermal stability

below 45°C (pH 7.0, 15min)

Optimum temperature

35-40°C

Michaelis Constant

1.6×10^{-4} M (pyruvate, pH 7.0)

Inhibitors

Ag⁺, Hg⁺⁺, SH-reagents

Storage and Shipping Information

Stability

Store at -20°C