

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 < 1.0×10⁻³% Malate dehydrogenase < 1.0×10⁻²% GOT < 5.0×10⁻³% GPT < 5.0×10⁻³% Myokinase < 1.0×10⁻²% Pyruvate kinase < 1.0×10⁻³%

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 1.6×10⁻⁴M (pyruvate, pH 7.0)

Inhibitors Ag⁺, Hg⁺⁺, SH-reagents

Storage and Shipping Information

Stability Store at -20°C