Creative Enzymes®

Native Lactate Dehydrogenase from Thermophillic bacteria

Cat. No. DIA-400

Lot. No. (See product label)

Introduction

Description	A lactate dehydrogenase (LDH or LD) is an enzyme found in nearly all living cells (animals, plants, and prokaryotes). LDH catalyzes the conversion of pyruvate to lactate and back, as it converts NADH to NAD+ and back. A dehydrogenase is an enzyme that transfers a hydride from one molecule to another.
Applications	Diagnostic test and biosensors; NADH recycling. This enzyme is a potential candidate for biocatalysis, suitable for pharmaceutical development / manufacturing.
Synonyms	Lactate dehydrogenase; EC 1.1.1.27; LDH; LD

Product Information

Source	Thermophillic bacteria
Form	Frozen Liquid
EC Number	EC 1.1.1.27
CAS No.	9001-60-9
Optimum pH	~8.0
Thermal stability	~100% stability after 1 hour at 70°C
Optimum temperature	70°C
Buffer	20 mM Tris-HCl (pH 8.0)
Unit Definition	One unit is defined as the amount of enzyme oxidizing 1μmol of NADH per 1 minute (ε340 = 6.22 mM-1 cm-1).

Storage and Shipping Information

Storage	Store at -20°C