



L-Lactate Assay Kit

Product Information

Cat.No.

Kit-0518

Product Overview

L-Lactate Assay Kit is a quantitative fluorimetric determination of L-lactate at FL530/585 nm.

Description

LACTATE is generated by lactate dehydrogenase (LDH) under hypoxic or anaerobic conditions. Monitoring lactate levels is, therefore, a good indicator of the balance between tissue oxygen demand and utilization and is useful when studying cellular and animal physiology. Simple, direct and automation-ready procedures for measuring lactate concentration are very desirable. L-Lactate Assay Kit is based on lactate dehydrogenase catalyzed oxidation of lactate, in which the formed NADH reduces a probe into a highly fluorescent product. The fluorescence intensity of this product, measured at $\lambda_{ex}/\lambda_{em} = 530/585$ nm, is proportional to the lactate concentration in the sample.

Applications

Direct Assays: L-lactate in serum, plasma, urine, cell media samples and other biological samples.

Usage

For research use only (RUO)

Storage

Store all reagents at -20°C. Shelf life: 6 months after receipt.

Kit Components

Assay Buffer 10 mL
NAD Solution 1 mL
Probe 750 μ L
Enzyme A 120 μ L
Enzyme B 120 μ L
Standard 1 mL

Detection method Fluorimetric

Compatible Sample Types



CREATIVE BIOMART[®]
Assay Kit

L-Lactate Assay Kit

Culture Medium, Plasma, Serum, Urine

Features & Benefits

Sensitive and accurate. Detection limit of 1 μM and linearity up to 50 μM L-lactate in 96-well plate assay. Convenient. The procedure involves adding a single working reagent, and reading the fluorescence after 60 min. Room temperature assay. High-throughput. Can be readily automated as a high-throughput 96-well plate assay for thousands of samples per day.

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