CREATIVE BIOMART®
Assay Kit

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 λex/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 mLNAD Solution 1 mLProbe 750 μLEnzyme A 120 μLEnzyme B 120 μLStandard 1 mL

Detection method Fluorimetric

Compatible Sample Types

Culture Medium, Plasma, Serum, Urine

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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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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