CREATIVE BIOMART®
Assay Kit

L-Lactate Assay Kit

Product Information

Cat

Kit-2464

Cat.No. Kit-2464

Product Overview

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. lactate assay kit is based on lactate dehydrogenase catalyzed oxidation of lactate, in which the formed NADH reduces a formazan (MTT) reagent. The intensity of the product color, measured at 565 nm, is proportionate to the lactate concentration in the sample.

Storage

-20°C

Shipping

On Ice

Size

100 tests

Detection method OD565nm

Compatible Sample Types

Serum, plasma, cell culture media etc

Features & Benefits

Sensitive and accurate. Detection limit of 0.05 mM and linearity up to 2 mM L-Lactate in 96-well plate assay. For cell culture samples containing phenol red: detection limit of 0.1 mM and linearity up to 1 mM L-Lactate in 96-well plate assay.
Convenient. The procedure involves adding a single working reagent, and reading the optical

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density at time zero and at 20 min. Room temperature assay. No 37°C heater is needed. High-throughput. Can be readily automated as a high-throughput 96-well plate assay for thousands of samples per day.

Assay time
20 min
Sensitivity
0.05 mM

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