



## 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



## L-Lactate Assay Kit

up to 1 mM L-Lactate in 96-well plate assay.

Convenient. The procedure involves adding a single working reagent, and reading the optical 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.

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**Assay time**

20 min

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**Sensitivity**

0.05 mM

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