

D-Lactate Assay Kit

Cat. No. Kit-2463 **Lot. No.** (See product label)

SPECIFICATION

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. D-Lactate is produced in only minor quantities in animals and measuring for D-lactate in animal samples is a means to determine the presence of bacterial infection. 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 probe into a highly fluorescent product. The fluorescence intensity of this product, measured at $\lambda_{ex/em} = 530/585$ nm, is proportional to the lactate concentration in the sample.
Storage	-20°C
Shipping	On Ice
Size	100 tests
Detection method	FL530/585 nm
Compatible Sample Types	Serum, plasma, cell culture media etc
Features & Benefits	Sensitive and accurate. Detection limit of 1 μ M and linearity up to 50 μ M D-lactate in 96-well plate assay.

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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.

Assay time	60 min
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Sensitivity	1 μ M
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