L-Lactate Assay Kit

Cat. No. Kit-0518 **Lot. No.** (See product label)

SPECIFICATION

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

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Compatible Sample Types	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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