

General Lactate Assay Kit

Lactate Microplate Assay Kit

CATALOG # AAA264776	REACTIVITY General	APPLICATIONS Functional Assay
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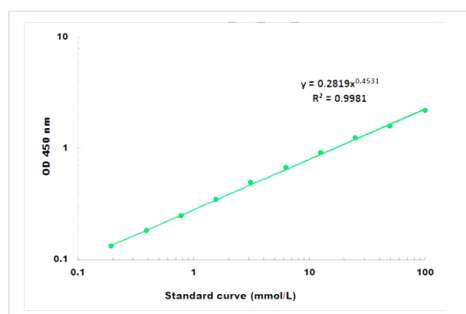
PRODUCT SYNONYMS

Lactate; Lactate Microplate Assay Kit; Lactate assay kit

PRODUCT SPECIFICATIONS

Reactivity	General
Samples	Serum, Plasma, Cell culture media, Other biological fluids Samples
Detection Range	0.1 mmol/L - 100 mmol/L
Applicable Applications for Lactate assay kit	FA (Functional Assay)
Preparation and Storage	Shipped and store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Lactate assay kit

Background: L-lactate is constantly produced from pyruvate via the enzyme lactate dehydrogenase (LDH) in a process of fermentation during normal metabolism and exercise. It does not increase in concentration until the rate of lactate production exceeds the rate of lactate removal, which is governed by a number of factors, including monocarboxylate transporters, concentration and isoform of LDH, and oxidative capacity of tissues. The concentration of blood lactate is usually 1- 2 mM at rest, but can rise to over 20 mM during intense exertion and as high as 25 mM afterward. In addition to other biological roles, L-lactic acid is the primary endogenous agonist of hydroxycarboxylic acid receptor 1 (HCA1), which is a Gi/o-coupled G protein-coupled receptor (GPCR). Lactate Microplate Assay Kit is a sensitive assay for determining lactate content in various samples. The kit is based on lactate dehydrogenase catalyzed oxidation of lactate, in which the formed NADH reduces a formazan reagent. The intensity of the product color, measured at 450 nm, is proportionate to the lactate concentration in the sample.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.