

Fluorescent Lactate Detection Kit

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CATALOG #
AAA52783

PRODUCT SYNONYMS

Fluorescent Lactate; Fluorescent Lactate Detection Kit; Fluoro Lactate Detection Kit; Fluorescent Lactate detection kit

PRODUCT SPECIFICATIONS

Method of Analysis	Fluorescence plate reader
Preparation and Storage	Store at 2-8 degree C Shipping: Blue Ice/Gel Packs

ADDITIONAL INFORMATION

Related Product Information for Fluorescent Lactate detection kit	This kit provides a reliable, sensitive fluorometric method for the quantification of lactate in biological samples such as serum, plasma, urine, and tissue extracts. The assay plate can be incubated and read in 15-30 min. Lactate is an intermediate product of carbohydrate metabolism. Of the two forms of Lactate, D- and L-, the L-lactate is the predominant isomer found in biological systems. L-lactate is formed during the anaerobic glycolysis by conversion of pyruvate to L-lactate by lactate dehydrogenase. Lactate level is an indicator for tissue oxygen demand and utilization. Abnormally high lactate levels are associated with diseases such as diabetes and lactate acidosis. Our lactate assay is a lactate oxidase-based method for detecting L-lactate in biological samples such as serum, plasma, blood, urine, and tissue extracts. In the assay, lactate oxidase (LOX) catalyzes the oxidation of L-lactate to pyruvate, along with the concomitant reduction of hydrogen peroxide (H₂O₂). The detection utilizes a non-fluorescent detection reagent, which is oxidized in the presence of horseradish peroxidase and LOX to produce its fluorescent analog.
Product Categories/Family for Fluorescent Lactate detection kit	Metabolic Assay

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.

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Online datasheet: <https://stage.aaabiotech.com/detection-kits/fluorescent-lactate/52783>