



## Lactate Assay Kit

### Product Information

#### Cat.No.

Kit-0498

#### Product Overview

Lactate Assay Kit is used for detecting L(+)-Lactate.

#### Description

Abnormal high concentration of lactate has been related to disease states such as diabetes and lactate acidosis, etc. L(+)-Lactate is the major stereo-isomer of lactate formed in human intermediary metabolism and is present in blood. D(-)-Lactate is also present but only at about 1-5% of the concentration of L(+)-Lactate. In the Lactate Assay Kit, lactate specifically reacts with an enzyme mix to generate a product, which interacts with lactate probe to produce color (OD 570 nm) and fluorescence (Ex/Em = 535/587 nm). The kit provides a convenient means for detecting L (+)-Lactate in biological samples such as in blood circulation, in cells, in culture mediums, in fermentation mediums, etc. There is no need of pretreatment or purification of samples. The kit can detect 0.001-10 mM of Lactate in various samples. We recommend to use clear 96 well plate for both colorimetric and fluorometric assay.

#### Applications

Measurement of Lactate in various biological samples  
Analysis of metabolism in various cells  
Diabetes research

#### Target Species

Mammals

#### Usage

For research use only (RUO)

#### Storage

Store kit at -20°C, protected from light.

#### Kit Components



CREATIVE BIOMART®  
Assay Kit

## Lactate Assay Kit

Lactate Assay Buffer 25 mL  
Lactate Probe (in DMSO, anhydrous) 200  $\mu$ L  
Lactate Enzyme Mix (lyophilized) 1 vial  
L(+)-Lactate Standard (100 nmol/ $\mu$ L) 100  $\mu$ L

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**Detection method** Colorimetric, Fluorometric

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**Compatible Sample Types**

Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine

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