



## Lactate Assay Kit II

### Product Information

#### Cat.No.

Kit-0499

#### Product Overview

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

#### Description

Lactate ( $\text{CH}_3\text{CH}(\text{OH})\text{COO}^-$ ) plays important roles in many biological processes. Abnormally high concentrations of lactate have been related to disease states such as diabetes and lactic acidosis, etc. L(+)-Lactate is the major lactate stereoisomer 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 is oxidized by lactate dehydrogenase to generate a product which interacts with a probe to produce a color ( $\lambda_{\text{max}} = 450 \text{ nm}$ ). The kit detects L(+)-Lactate in biological samples such as serum or plasma, cells, culture and fermentation media at a level of 0.02 mM – 10 mM. There is no need for pretreatment or purification of samples.

#### Target Species

Mammals

#### Usage

For research use only (RUO)

#### Storage

Store the kit at  $-20^\circ\text{C}$ .

#### Kit Components

Lactate Assay Buffer 25 mL  
Lactate Enzyme Mix (Lyophilized) 1 vial  
Lactate Substrate Mix (Lyophilized) 1 vial  
L(+)-Lactate Standard (100 mM) 100  $\mu\text{L}$

**Detection method** Colorimetric

#### Compatible Sample Types



CREATIVE **BIOMART**<sup>®</sup>  
Assay Kit

## Lactate Assay Kit II

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

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