



## Pyruvate Assay Kit

### Product Information

#### Cat.No.

Kit-0755

#### Product Overview

Pyruvate Assay Kit is used for measuring pyruvate concentration.

#### Description

Pyruvate is a central molecule in metabolism through which sugars enter the citric acid cycle. Pyruvate can be converted to carbohydrates during gluconeogenesis or to fatty acids via acetyl CoA. High levels of pyruvate are associated with liver disease and genetic disorders. Pyruvate has also been used to stimulate metabolism leading to loss of body weight. We provides a simple, direct and automation-ready procedure for measuring pyruvate concentration in various biological samples such as blood, cells, culture and fermentation media, etc. In the assay, pyruvate is oxidized by pyruvate oxidase via enzyme reactions to generate color (OD 570 nm) and fluorescence (Ex/Em = 535/587 nm). Since the color or fluorescence intensity is proportional to pyruvate content, the pyruvate concentration can be accurately measured. The kit detects 1  $\mu$ M to 10 mM pyruvate.

#### Applications

Measurement of pyruvate in various tissues/cells/serum/saliva etc. Analysis of metabolism in various cells

#### Target Species

Mammals

#### Usage

For research use only (RUO)

#### Storage

Store the kit at -20°C, protected from light. Briefly centrifuge small vials prior to opening. Read entire protocol before performing the assay.

#### Kit Components



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

## Pyruvate Assay Kit

Pyruvate Assay Buffer 25 mL  
Pyruvate Probe (in DMSO) 200  $\mu$ L  
Pyruvate Enzyme Mix  
Lyophilized Pyruvate 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

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