

## Pyruvate Assay Kit

### Product Information

#### Cat

Kit-2514

#### Cat.No.

Kit-2514

### Product Overview

Pyruvate is a key intermediate in cellular metabolic pathways. Pyruvate can be converted to carbohydrates via gluconeogenesis, to fatty acids or energy through acetyl-CoA, to the amino acid alanine and to ethanol. Abnormal levels of pyruvate have been linked to liver diseases and metabolic disorders. Simple, direct and automation-ready procedures for measuring pyruvate concentrations find wide applications in research and drug discovery. Pyruvate assay uses a single Working Reagent that combines pyruvate oxidase and hydrogen peroxide determination in one step. The color intensity of the reaction product at 570nm or fluorescence intensity at  $\lambda_{ex/em} = 530/585\text{nm}$  is directly proportional to pyruvate concentration in the sample.

#### Storage

-20°C

#### Shipping

On Ice

#### Size

100 tests

**Detection method** OD570nm, or FL530/585nm

#### Compatible Sample Types

Biological

#### Features & Benefits

Sensitive and accurate. Use as little as 10  $\mu\text{L}$  samples. Linear detection range in 96-well plate: 2 to

## Pyruvate Assay Kit

500  $\mu$ M (17  $\mu$ g/dL to 4.4 mg/dL) pyruvate for colorimetric assays and 0.2 to 50  $\mu$ M for fluorimetric assays.

Simple and convenient. The procedure involves addition of a single working reagent and incubation for 30 min at room temperature, compatible for HTS assays.

Improved reagent stability. The optimized formulation has greatly enhanced the reagent and signal stability.

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**Assay time**

20 min

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**Sensitivity**

OD, FL: 2, 0.2  $\mu$ M

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