



## 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  $\lambda_{ex}/em = 530/585nm$  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  $\mu$ L samples. Linear detection range in 96-well plate: 2 to



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

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