

Pyruvate Assay Kit II

Cat. No. Kit-0756 Lot. No. (See product label)

SPECIFICATION

Product Overview	Pyruvate Assay Kit is a quantitative colorimetric/fluorimetric pyruvate determination.
Description	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 Kit 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 $\lambda_{em}/\lambda_{ex} = 585/530\text{nm}$ is directly proportional to pyruvate concentration in the sample.
Applications	Direct Assays: pyruvate in biological samples. Drug Discovery/Pharmacology: effects of drugs on pyruvate metabolism.
Usage	For research use only (RUO)
Storage	The kit is shipped on dry ice. Store all reagents at -20°C. Shelf life of three months after receipt.
Kit Components	Enzyme Mix 10 mL Dye Reagent 120 μ Standard 400 μ 25 mM Pyruvate
Detection method	Colorimetric, Fluorometric

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**Compatible Sample
Types**

Biological Sample

Features & Benefits

Sensitive and accurate. Use as little as 10 μ samples. Linear detection range in 96-well plate: 2 to 500 μ M (17 μ g/dL to 4.4 mg/dL) pyruvate for colorimetric assays and 0.2 to 50 μ 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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