Pyruvate Assay Kit

Cat. No. Kit-0755 **Lot. No.** (See product label)

SPECIFICATION

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 μM 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	Pyruvate Assay Buffer 25 mLPyruvate Probe (in DMSO) 200

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	µLPyruvate Enzyme Mix LyophilizedPyruvate Standard (100 nmol/µL) 100 µL
Detection method	Colorimetric, Fluorometric
Compatible Sample Types	Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant

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