CREATIVE BIOMART®
Assay Kit

Glucose Assay Kit

Product Information

Cat

Kit-2446

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Product Overview

Glucose (C6H12O6) is a ubiquitous fuel molecule in biology. It is oxidized through a series of enzyme-catalyzed reactions to form carbon dioxide and water, yielding the universal energy molecule ATP. Due to its importance in metabolism, glucose level is a key diagnostic parameter for many metabolic disorders. Increased glucose levels have been associated with diabetes mellitus, hyperactivity of thyroid, pituitary and adrenal glands. Decreased levels are found in insulin secreting tumors, myxedema, hypopituitarism and hypoadrenalism. Simple, direct and automation-ready procedures for measuring glucose concentrations find wide applications in research and drug discovery. glucose assay kit is designed to measure glucose directly in serum or plasma without any pretreatment. The improved o-toluidine method utilizes a specific color reaction with glucose. The absorbance at 630nm is directly proportional to glucose concentration in the sample.

Storage

4, -20°C

Shipping

RT

Size

100 tests

Detection method OD630nm (Chemical)

Compatible Sample Types

Biological, food and beverage

Features & Benefits

Sensitive and accurate. Use as little as 5 µL samples. Linear detection range 0.7 mg/dL (39 µM) to

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45-1 Ramsey Road, Shirley, NY 11967, USA

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300 mg/dL (16. 6 mM) glucose in 96-well plate.
Simple and convenient. The procedure involves addition of a single working reagent and incubation for 8 min in a boiling water bath.
Improved reagent stability. The optimized formulation has greatly enhanced the reagent and signal stability. Low interference in biological samples. No pretreatments are needed. Assays can be directly performed on serum and plasma samples.

Assay time
10 min
Sensitivity
0.7 mg/dL (39 μM)

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