CREATIVE BIOMART®
Assay Kit

Glucose and Sucrose Colorimetric/Fluorometric Assay Kit

Product Information

Cat

Kit-1105

Cat.No. Kit-1105

Description

Glucose (C6H12O6; FW: 180.16) and sucrose (C12H22O11; FW:342.3) are the important fuel sources to generate universal energy molecule ATP.Measurement of glucose or sucrose level can be very important in both research and development process. Sucrose is a disaccharide which can be converted into one glucose and one fructose when adding Invertase. Glucose and Sucrose Assay Kit provides a convenient means for measuring glucose and sucrose levels from various biological samples (e.g. serum, plasma, body fluids, food, growth medium, etc.). To measure glucose level, glucose oxidase specifically oxidizes free-glucose generating a compound that reacts with the glucose probe to produce resorufin, which can be detected colorimetrically (O.D. 570 nm) or fluorometrically (Ex/Em 535/587). To measure sucrose, invertase can be added to the reaction to convert sucrose to free glucose and fructose, so total glucose level can be measured. Then the sucrose level = Total Glucose – Free Glucose.

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

Glucose Assay Buffer; Glucose Probe(in DMSO); Invertase (Lyophilized); Glucose Enzyme Mix (Lyophilized); Sucrose Standard (100 nmol/;l)

Target Species

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Glucose and Sucrose Colorimetric/Fluorometric Assay Kit

Mammalian

Detection method Absorbance (570 nm) or Fluorescence (Ex/Em 535/587 nm)

Features & Benefits

Simple procedure; takes ~40 minutes;
Fast and convenient;
Kit provides all necessary buffers and reagents for a accurate assay of glucose and sucrose individually in various biological samples

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