CREATIVE BIOMART®
Assay Kit

# Glucose and Sucrose Assay Kit

## Product Information

**Cat.No.** Kit-0375

**Product Overview**

Glucose and Sucrose Assay Kit is used for measuring glucose and sucrose levels.

**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. The 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.

**Target Species**

Mammals

**Usage**

For research use only (RUO)

**Storage**

Store kit at -20°C, protect from light. Allow reagents warm to room temperature and briefly centrifuge vials before opening.

**Kit Components**

Glucose Assay Buffer 25 ml WMGlucose Probe* (in DMSO) 200l µl RedInvertase (Lyophilized) 1 Vial BlueGlucose Enzyme Mix (Lyophilized) 1 Vial GreenSucrose Standard (100 nmol/μl) 100 µl Yellow*

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Note: The fluorometric assay is ~10 times more sensitive than the colorimetric assay. Use 0.4 µl of the probe per reaction to decrease background/increase detection sensitivity significantly.

**Detection method** Colorimetric, Fluorometric

**Compatible Sample Types**

Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine

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