

Glucose and Sucrose Assay Kit

Cat. No. Kit-0375 **Lot. No.** (See product label)

SPECIFICATION

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 μRedInvertase

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(Lyophilized) 1 Vial BlueGlucose Enzyme Mix (Lyophilized) 1 Vial GreenSucrose Standard (100 nmol/μl) 100 μYellow* Note: The fluorometric assay is ~10 times more sensitive than the colorimetric assay. Use 0.4 μof 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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