

Sucrose Assay Kit

Cat. No. Kit-0808 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Sucrose Assay Kit is used for measuring sucrose levels.
Description	Sucrose (C₁₂H₂₂O₁₁; FW:342.3), also called table sugar, is one of the most important fuel sources to generate the universal energy molecule ATP. Sucrose is a disaccharide which can be converted into one molecule of glucose and one molecule of fructose. The Sucrose Assay Kit provides a convenient means for specifically measuring sucrose levels from various biological samples (e.g. serum, plasma, body fluids, food, growth medium, etc.). Sucrose is converted to glucose and fructose by invertase. The glucose is then specifically oxidized to generate a product which reacts with a probe to generate color ($\lambda = 570 \text{ nm}$) and fluorescence (Ex/Em = 535/587 nm). Use of proper controls allows for correcting free glucose background. Other disaccharides such as lactose and maltose do not interfere with the assay. The method can detect 0.0002-10 mM sucrose concentrations.
Target Species	Mammals
Usage	For research use only (RUO)
Storage	Store kit at -20°C, protect from light. Briefly centrifuge vials prior to opening. Allow buffers warm to room temperature before use. Keep enzymes on ice.
Kit Components	Sucrose Assay Buffer 25 mL OxiRed Probe (in DMSO) 0.2 mL Invertase (Lyophilized) 1 vial Enzyme Mix (Lyophilized) 1 vial Sucrose Standard (100 nmol/μL) 100 μL
Detection method	Colorimetric, Fluorometric

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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



Compatible Sample Types	Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine
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