CREATIVE BIOMART®
Assay Kit

Sucrose Assay Kit

Product Information

Cat.No. Kit-0808

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 (λ = 570 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 mLOxiRed Probe (in DMSO) 0.2 mLInvertase (Lyophilized) 1 vialEnzyme Mix (Lyophilized) 1 vialSucrose Standard (100 nmol/μL) 100 μL

Detection method Colorimetric, Fluorometric

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Compatible Sample Types

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

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