CREATIVE BIOMART®
Assay Kit

Maltose Assay Kit

Product Information

Cat.No. Kit-0536

Product Overview

Maltose Assay Kit is used for quantifying maltose.

Description

Maltose (C12H22O11; FW: 342.3), one of the main fuel sources to generate the universal energy molecule ATP, is the major disaccharide that is generated from hydrolysis of starch in food. Maltose contains two glucose units joined by a a-1,4-glycosidic linkage, which can be easily converted to two glucoses by a-D-glucosidase.The generated glucose can be specifically oxidized to produce a product that interacts with the probe to generate color and fluorescence. Thus, maltose can be determined by either colorimetric (spectrophotometry at λ = 570 nm) or fluorometric (Ex/Em = 535/587 nm) methods. The kit provides a fast, easy and sensitive method for quantifying maltose in various biological samples (e.g. serum, plasma, body fluids, food, growth medium, etc.).

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 reagents warm to room temperature before use, but keep enzymes cold.

Kit Components

Maltose Assay Buffer 25 mlMaltose Probe (in DMSO) 200 ulα-D-Glucosidase (Lyophilized) 1 vialEnzyme Mix (Lyophilized) 1 vialMaltose Standard (100 nmol/μl) 100 ul

Detection method Colorimetric, Fluorometric

Compatible Sample Types

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

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