CREATIVE BIOMART®
Assay Kit

Maltose and Glucose Colorimetric/Fluorometric Assay Kit

Product Information

Cat

Kit-1104

Cat.No. Kit-1104

Description

Glucose (C6H12O6; FW: 180.16) and Maltose (C12H22O11; FW: 342.3) are the main fuel sources to generate the universal energy molecule ATP. Maltose is the major disaccharide that 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. Glucose oxidase specifically oxidizes free glucose to produce a product that interacts with the glucose probe to generate color and fluorescence. Therefore, glucose or maltose levels in various biological samples (e.g. serum, plasma, body fluids, food, growth medium, etc.) can be easily determined by either colorimetric (spectrophotometry at λ= 570 nm) or fluorometric (Ex/Em = 535/587 nm) methods. The assay can detect 10 pmol to 10 nmol glucose per assay.

Applications

The assay can detect 10 pmol to 10 nmol glucose per assay.

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

Glucose Assay Buffer; Glucose Probe (Lyophilized); Dimethylsulfoxide (DMSO, Anhydrous); a-D-Glucosidase (Lyophilized); Glucose Enzyme Mix (Lyophilized); Maltose Standard (100 nmol/μl)

Target Species

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Assay Kit

Maltose and Glucose Colorimetric/Fluorometric Assay Kit

Mammalian

Detection method Fluorescence Absorbance (570 nm) or Fluorescence (Ex/Em 535/587 nm)

Features & Benefits

Simple procedure; takes ~ 1 hour;
Fast and convenient;
Kit provides all necessary buffers and reagents for assay of Maltose and Glucose individually in various biological samples

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