abcam

Product datasheet

Maltose and Glucose Assay Kit ab65335

2 References 1 Image

Overview

Product name	Maltose and Glucose Assay Kit
Detection method	Colorimetric/Fluorometric
Sample type	Cell culture supernatant, Urine, Serum, Plasma, Other biological fluids, Tissue Extracts
Assay type	Quantitative
Sensitivity	> 0.01 nmol/well
Range	0.01 nmol/well - 10 nmol/well
Assay time	1h 00m
Product overview	Maltose and Glucose Assay Kit (ab65335) can measure glucose or maltose levels in a variety of biological samples (e.g. serum, plasma, body fluids, food, growth medium, etc.). The assay is based on the ability of glucose oxidase to specifically oxidize free glucose, producing a product that interacts with the glucose probe. The amount of product can be either colorimetric (spectrophotometry at OD= 570 nm) or fluorometric (Ex/Em = 535/587 nm) method. This kit can detect 10 pmol to 10 nmol glucose per assay. It can also be used for isomaltose detection. Visit our **FAQs page** for tips and troubleshooting.
Notes	This product is manufactured by BioVision, an Abcam company and was previously called K618 Maltose and Glucose Colorimetric/Fluorometric Assay Kit. K618-100 is the same size as the 100 test size of ab65335. Glucose ($C_6H_{12}O_6$; FW: 180.16) and Maltose ($C_{12}H_{22}O_{11}$; 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 α-1,4-glycosidic linkage, which can be easily converted to two glucoses by α-D-glucosidase. Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances. It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.
Platform	Microplate reader

Properties

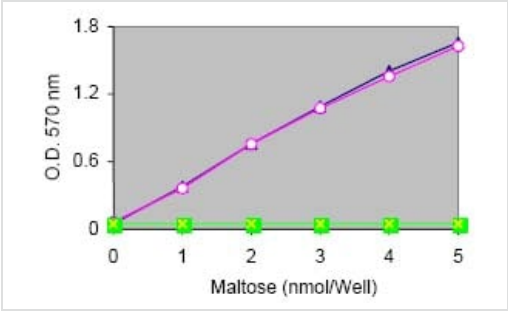
Storage instructions Store at -20°C. Please refer to protocols.

Components	100 tests
alpha-D-Glucosidase (Lyophilized)	1 vial
Assay Buffer	1 x 25ml
Glucose Enzyme Mix (lyophilized)	1 vial
Glucose Probe	1 x 0.2ml
Maltose Standard (100 nmol/µl)	1 x 100µl

Relevance

Maltose ($C_{12}H_{22}O_{11}$; fW:342.30) is a disaccharide formed from two units of glucose ($C_6H_{12}O_6$; FW: 180.16) joined via a a-1,4-glycosidic linkage. Maltose is the major disaccharide generated from hydrolysis of starch and in living organisms, maltose is hydrolyzed by maltase. Once inside the cells, glucose will be processed and ener the glycolysis pathway to ultimately produce enery in form of ATP.

Images



Functional Studies - Maltose and Glucose Assay Kit (ab65335)

Maltose Standard Curve. Assays were performed using various amounts of Maltose standard according to kit instructions. Circle is maltose with a-D-Glucosidase. Square is maltose without a-D-Glucosidase. Triangle is glucose with 2 times nmol of Maltose.

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