

Maltose and Glucose Colorimetric/Fluorometric Assay Kit

Cat. No. Kit-1104 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

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 α -1,4-glycosidic linkage, which can be easily converted to two glucoses by α -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); α -D-Glucosidase (Lyophilized); Glucose Enzyme Mix (Lyophilized); Maltose Standard (100 nmol/ μ l)

 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

Target Species	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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