

# Maltose and Glucose Colorimetric/Fluorometric Assay Kit

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

## SPECIFICATION

<b>Description</b>	Glucose (C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> ; FW: 180.16) and Maltose (C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> ; 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 $\alpha$ -1,4-glycosidic linkage, which can be easily converted to two glucoses by $\alpha$ -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 $\lambda$ = 570 nm) or fluorometric (Ex/Em = 535/587 nm) methods. The assay can detect 10 pmol to 10 nmol glucose per assay.
<b>Applications</b>	The assay can detect 10 pmol to 10 nmol glucose per assay.
<b>Storage</b>	-20°C
<b>Shipping</b>	Gel Pack
<b>Size</b>	100 assays
<b>Kit Components</b>	Glucose Assay Buffer; Glucose Probe (Lyophilized); Dimethylsulfoxide (DMSO, Anhydrous); $\alpha$ -D-Glucosidase (Lyophilized); Glucose Enzyme Mix (Lyophilized); Maltose Standard (100 nmol/ $\mu$ l)
<b>Target Species</b>	Mammalian

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<b>Detection method</b>	Fluorescence Absorbance (570 nm) or Fluorescence (Ex/Em 535/587 nm)
<b>Features &amp; Benefits</b>	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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