

Maltose Assay Kit

Cat. No. Kit-0536 **Lot. No.** (See product label)

SPECIFICATION

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 α-1,4-glycosidic linkage, which can be easily converted to two glucoses by α-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 ml Maltose Probe (in DMSO) 200 ul α-D-Glucosidase (Lyophilized) 1 vial Enzyme Mix (Lyophilized) 1 vial Maltose Standard (100 nmol/l) 100 ul

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Detection method	Colorimetric, Fluorometric
Compatible Sample Types	Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine

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