



Lactose Assay Kit

Product Information

Cat.No.

Kit-0500

Product Overview

Lactose Assay Kit is a quantitative colorimetric lactose determination.

Description

LACTOSE (C₁₂H₂₂O₁₁), also called milk sugar, is a disaccharide that consists of β-D-galactose and α-D-glucose through a β-1-4 glycosidic linkage. Lactose is the major sugar and makes up 2–8% of milk. Simple, direct and high-throughput assays for lactose determination find wide applications. Lactose Assay Kit uses specific enzyme-coupled reactions in which lactose is cleaved and the resulting galactose forms a colored product. The color intensity at 570nm or fluorescence intensity at 530nm/585nm is directly proportional to the lactose concentration in the sample.

Applications

Assays of lactose in milk and other biological samples. Drug Discovery/Pharmacology: effects of drugs on lactose metabolism. Food and Beverages: lactose in food and beverages products.

Usage

For research use only (RUO)

Storage

Store all components at -20°C. Shelf life of 12 months after receipt.

Kit Components

Assay Buffer 10 mL
Enzyme Mix Dried Lactase Dried Dye Reagent 120 μL
Standard (20 mM Lactose) 1 mL

Detection method Colorimetric, Fluorometric

Compatible Sample Types



CREATIVE **BIOMART**[®]
Assay Kit

Lactose Assay Kit

Biological Sample, Milk

Features & Benefits

Use as little as 20 μ L samples. Linear detection range in 96-well plate: 17 to 2000 μ M lactose for colorimetric assays and 6 to 100 μ M for fluorimetric assays.

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