CREATIVE BIOMART®
Assay Kit

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 a/β-D-glucose through a β1-4 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 mLEnzyme Mix DriedLactase DriedDye Reagent 120 µLStandard (20 mM Lactose) 1 mL

Detection method Colorimetric, Fluorometric

Compatible Sample Types

Biological Sample, Milk

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Features & Benefits

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

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