CREATIVE BIOMART®
Assay Kit

Lactose Colorimetric/Fluorometric Assay Kit

Product Information

Cat

Kit-1057

Common Name

Lactose

Cat.No. Kit-1057

Description

Lactose (C;;H;;O;; FW: 342.3) is an important naturally occurred disaccharide, consisting of one galactose and one glucose. Milk contains ~2-8% lactose.Some people, particularly infants, lack the enzyme necessary to digest galactose leading to galactose accumulation in blood (Galactosemia) causing enlarged liver, renal failure, cataracts and brain damage. In the Lactose Assay Kit, Lactose is hydrolyzed to glucose and galactose. The galactose is subsequently oxidized generating color (O.D 570 nm) and fluorescence (Ex/Em 535/587 nm). Free galactose can be corrected by a background control in the absence of lactase. The Lactose Assay Kit provides a simple, convenient, and sensitive means for direct measurement of lactose levels in various biological samples (serum, plasma, other body fluids, food, growth media, etc.). Pretrea;ent of samples is not required. The kit can be used as a high throughput assay.

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

Lactose Assay Buffer; Probe (DMSO solution); Lactase (Lyophilized); Lactose Enzyme Mix (Lyophilized); HRP (Lyophilized); Lactose Standard (100 nmol/μl)

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Assay Kit

Lactose Colorimetric/Fluorometric Assay Kit

Target Species

Mammalian

Detection method Absorbance (570 nm) or Fluorescence (Ex/Em 535/587 nm)

Features & Benefits

Simple procedure; takes ~1 hour;
Fast and convenient;
Kit contains all necessary reagents for accurate measurement of Lactose

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