

Galactose and Lactose Assay Kit

Product Information

Cat.No.

Kit-0356

Product Overview

Galactose and Lactose Assay Kit is used for measuring of galactose and lactose levels.

Description

Galactose (C₆H₁₂O₆ FW: 180.16) and lactose (C₁₂H₂₂O₁₁ FW: 342.3) are naturally occurring sugars. Lactose consists of one galactose and one glucose. 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. Galactose and Lactose Assay Kit provides a simple, convenient means for direct measurement of galactose and lactose levels in various biological samples (serum, plasma, other body fluids, food, growth media, etc.). To detect Galactose, galactose oxidase specifically oxidizes free galactose, generating a product that reacts with the Galactose Probe to produce color (O.D 570 nm) and fluorescence (Ex/Em 535/587). To detect lactose, lactose is hydrolyzed by lactase to generate free galactose which is then measured. Thus, Lactose level = Total Galactose - Free Galactose.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store kit at -20°C, protect from light. Allow reagents warm to room temperature and briefly centrifuge vials before opening.

Kit Components

Galactose Assay Buffer 25 mL Galactose Probe* (DMSO solution) 0.2 mL Lactase (Lyophilized) 1 vial Galactose Enzyme Mix (Lyophilized) 1 vial HRP (Lyophilized) 1 vial Galactose Standard (100



CREATIVE **BIOMART**[®]
Assay Kit

Galactose and Lactose Assay Kit

nmol/ μ L) 100 μ L

Detection method Colorimetric, Fluorometric

Compatible Sample Types

Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine

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