CREATIVE BIOMART®
Assay Kit

# 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 mLGalactose Probe* (DMSO solution) 0.2 mLLactase (Lyophilized) 1 vialGalactose Enzyme Mix (Lyophilized) 1 vialHRP (Lyophilized) 1 vialGalactose Standard (100 nmol/μL) 100 μL

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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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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