CREATIVE BIOMART®
Assay Kit

Galactose and Lactose Colorimetric/Fluorometric Assay Kit

Product Information

Cat

Kit-1110

Cat.No. Kit-1110

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 / 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 570nm) 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.

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

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

Target Species

Mammalian

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

CREATIVE BIOMART®
Assay Kit

Galactose and Lactose Colorimetric/Fluorometric Assay Kit

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

Features & Benefits

Simple procedure; takes ~ 1 hour;
Fast and convenient;
Kit provides all necessary buffers and reagents for a accurate assay of galactose and lactose individually in various biological samples

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