



## Galactose and Lactose Colorimetric/Fluorometric Assay Kit

### Product Information

#### Cat

Kit-1110

#### Cat.No.

Kit-1110

#### Description

Galactose (C<sub>6</sub>H<sub>12</sub>O<sub>6</sub> FW: 180.16) and lactose (C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> 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



CREATIVE **BIOMART**<sup>®</sup>  
Assay Kit

## Galactose and Lactose Colorimetric/Fluorometric Assay Kit

Mammalian

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

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### Features & Benefits

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Simple procedure; takes ~ 1 hour;

Fast and convenient;

Kit provides all necessary buffers and reagents for an accurate assay of galactose and lactose individually in various biological samples

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