

# Galactose Assay Kit

**Cat. No.** Kit-0355    **Lot. No.** (See product label)

## SPECIFICATION

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b>        | Galactose Assay Kit is a quantitative colorimetric galactose determination.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>             | GALACTOSE (C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> ) is a monosaccharide that is found in dairy products, sugar beets, gums and mucilages. It is also synthesized in mammals, where it forms part of glycolipids and glycoproteins in several tissues. It forms the disaccharide lactose when combined with glucose. Simple, direct and high-throughput assays for galactose determination find wide applications. Galactose Assay Kit uses specific enzyme-coupled reactions to form a colored product. The color intensity at 570 nm or fluorescence intensity at 530 nm/585 nm is directly proportional to the galactose concentration in the sample. |
| <b>Applications</b>            | Direct Assays: galactose in serum, plasma, urine, saliva, milk, culture medium and other biological samples. Drug Discovery/Pharmacology: effects of drugs on galactose metabolism. Food and Beverages: galactose in food and beverages products.                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Usage</b>                   | For research use only (RUO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage</b>                 | Store all components at -20°C. Shelf life of 12 months after receipt.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Kit Components</b>          | Assay Buffer 10 mL<br>Enzyme Mix (Dried) 1 vial<br>Dye Reagent 120 µL<br>Standard 1 mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Detection method</b>        | Colorimetric, Fluorometric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Compatible Sample Types</b> | Biological Sample, Culture Medium, Milk, Plasma, Saliva, Serum, Urine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Features & Benefits**

Use as little as 20  $\mu$  samples. Linear detection range in 96-well plate: 10 to 1000  $\mu$ M galactose for colorimetric assays and 10 to 100  $\mu$ M for fluorimetric assays.

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