Lactose Colorimetric/Fluorometric Assay Kit

Cat. No. Kit-1057 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Description	Lactose (C;;H;;O;; FW: 342.3) is an important naturally occurred disaccharide, consisting of one galactose and one glucose. Milk contains ~2-8% lactose.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. In the Lactose Assay Kit, Lactose is hydrolyzed to glucose and galactose. The galactose is subsequently oxidized generating color (O.D 570 nm) and fluorescence (Ex/Em 535/587 nm). Free galactose can be corrected by a background control in the absence of lactase. The Lactose Assay Kit provides a simple, convenient, and sensitive means for direct measurement of lactose levels in various biological samples (serum, plasma, other body fluids, food, growth media, etc.). Pretrea;ent of samples is not required. The kit can be used as a high throughput assay.
Storage	-20°C
Shipping	Gel Pack
Size	100 assays
Kit Components	Lactose Assay Buffer; Probe (DMSO solution); Lactase (Lyophilized); Lactose Enzyme Mix (Lyophilized); HRP (Lyophilized); Lactose Standard (100 nmol/µl)
Target Species	Mammalian

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Detection method	Absorbance (570 nm) or Fluorescence (Ex/Em 535/587 nm)
Features & Benefits	Simple procedure; takes ~1 hour; Fast and convenient; Kit contains all necessary reagents for accurate measurement of Lactose

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