

Lactose Assay Kit

Cat. No. Kit-0500 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Lactose Assay Kit is a quantitative colorimetric lactose determination.
Description	LACTOSE (C ₁₂ H ₂₂ O ₁₁), also called milk sugar, is a disaccharide that consists of β-D-galactose and α/β-D-glucose through a β1-4 glycosidic linkage. Lactose is the major sugar and makes up 2–8% of milk. Simple, direct and high-throughput assays for lactose determination find wide applications. Lactose Assay Kit uses specific enzyme-coupled reactions in which lactose is cleaved and the resulting galactose forms a colored product. The color intensity at 570nm or fluorescence intensity at 530nm/585nm is directly proportional to the lactose concentration in the sample.
Applications	Assays of lactose in milk and other biological samples. Drug Discovery/Pharmacology: effects of drugs on lactose metabolism. Food and Beverages: lactose in food and beverages products.
Usage	For research use only (RUO)
Storage	Store all components at -20°C. Shelf life of 12 months after receipt.
Kit Components	Assay Buffer 10 mL Enzyme Mix Dried Lactase Dried Dye Reagent 120 μ Standard (20 mM Lactose) 1 mL
Detection method	Colorimetric, Fluorometric
Compatible Sample Types	Biological Sample, Milk

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Features & Benefits

Use as little as 20 μ samples. Linear detection range in 96-well plate: 17 to 2000 μ M lactose for colorimetric assays and 6 to 100 μ M for fluorimetric assays.