Lactulose Fluorometric Assay Kit

Cat. No. Kit-0501 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Lactulose Assay Kit (Fluorometric) is used to measure Lactulose.
Description	Lactulose is a synthetic disaccharide composed of galactose and fructose. It is closely related to lactose which is a disaccharide consisting of galactose and glucose. Since Lactulose is not absorbed by the gut; it is therefore used as a laxative and for hepatic encephalopathy and is considered a prebiotic. It is detectable in heated milk since it is easily formed by isomerization of lactose at elevated temperatures or in alkaline solutions. Significant background is observed in traditional assays where glucose formed from the fructose is used to measure the lactulose concentration in the samples. The Lactulose Assay Kit (Fluorometric) provides a simple, sensitive, & convenient assay to measure Lactulose. In this kit, fructose is directly measured using Lactulose Enzyme Mix after hydrolysis of Lactulose into galactose and fructose. The linear range of the assay is between approximately 10 pmol and 1 nmol.
Applications	Determination of lactulose.
Usage	For research use only (RUO)
Storage	Store kit at -20°C.
Kit Components	Lactulose Hydrolysis Buffer 25 mLHydrolysis Enzyme Mix (Lyophilized) 1 vialLactulose Reaction Buffer 25 mLLactulose Enzyme Mix (Lyophilized) 1 vialPicoProbe 300 µLEnhancement Solution 1.5 mLLactulose Standard (100 mM) 80 µL

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Detection method	Fluorometric
Compatible Sample Types	Dairy products, Foods, Pharmaceuticals

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