



Sorbitol Colorimetric Assay Kit II

Product Information

Cat.No.

Kit-0795

Product Overview

Sorbitol Assay Kit (Colorimetric) is used for quantitative determination of Sorbitol (Glucitol) using colourmetric methods.

Description

SORBITOL (glucitol) is a sugar alcohol that is metabolized slowly in the human body. Sorbitol can be obtained from glucose by reducing aldehyde group to a hydroxyl group. Accumulation of excessive sorbitol in erythrocytes, retinal cells, and Schwann cells has been associated with retinopathy, cataracts, peripheral neuropathy and diabetes. Sorbitol is made solely from corn syrup, and found in fruits such as apples, pears, peaches, and prunes. It is widely used as a sugar substitute and as a laxative. It is also utilized in specialty culture media and in healthcare, food and cosmetic products. Sorbitol is measured in biological samples to monitor metabolic pathways and the progression of diabetes. Sorbitol Assay Kit (Colorimetric) involves an end-point enzyme coupled MTT/NAD reaction that forms a colored product with an absorption maximum at 565 nm. The increase in absorbance at 565 nm is directly proportional to the sorbitol concentration.

Applications

Sorbitol determination in biological (e.g. blood), food, beverage and agriculture samples.

Usage

For research use only (RUO)

Storage

Store all components at -20 °C upon receiving.

Kit Components

Assay Buffer 10 mL Enzyme A 120 µL Enzyme B 120 µL NAD/MTT 1 mL Standard (50 mM Sorbitol) 250 µL

Detection method Colorimetric



CREATIVE **BIOMART**[®]
Assay Kit

Sorbitol Colorimetric Assay Kit II

Compatible Sample Types

Beverage, Food, Plasma, Serum, Agriculture samples

Features & Benefits

Fast and sensitive. Linear detection range (20 μ L sample): 5 to 1000 μ M D-sorbitol. Convenient and high-throughput. Room temperature assay. No 37°C incubator required. Homogeneous "mix-incubate-measure" type assay. Can be readily automated on HTS liquid handling systems for processing thousands of samples per day.

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