CREATIVE BIOMART®
Assay Kit

# 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 mLEnzyme A 120 µLEnzyme B 120 µLNAD/MTT 1 mLStandard (50 mM Sorbitol) 250 µL

**Detection method** Colorimetric

**Compatible Sample Types**

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# Sorbitol Colorimetric Assay Kit II

Beverage, Food, Plasma, Serum, Agriculture samples

**Features & Benefits**

Fast and sensitive. Linear detection range (20 µL sample): 5 to 1000 µM 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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