

Sorbitol Colorimetric Assay Kit II

Cat. No. Kit-0795 **Lot. No.** (See product label)

SPECIFICATION

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

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	mM Sorbitol) 250 μ
Detection method	Colorimetric
Compatible Sample Types	Beverage, Food, Plasma, Serum, Agriculture samples
Features & Benefits	Fast and sensitive. Linear detection range (20 μ 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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