CREATIVE BIOMART®
Assay Kit

D-Sorbitol Colorimetric Assay Kit

Product Information

Cat

Kit-1117

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Description

Sorbitol is one of the 6 carbon sugar alcohols. It is commonly used as an artificial sweetener, as a laxative and in cosmetics as a humectant and thickening agent. Sorbitol is produced naturally in a variety of fruits. It can be produced in humans in small amounts by the reduction of glucose by aldose reductase. Due to its poor ability to diffuse across the cell membrane, sorbitol can be trapped in cells and is believed to be one of the causes of damage (due to osmotic effects) in diabetes. Interestingly, sorbitol can be used as a screen for the O154:H7 strain of E. coli, since this strain is one of the few strains which cannot metabolize sorbitol. Sorbitol Colorimetric Assay Kit is designed to measure sorbitol in a variety of samples such as foods, fruits, fruit juices, pharmaceuticals, cosmetics, paper and some other biological samples. In the assay, sorbitol is oxidized to fructose with the proportional development of intense color with an absorbance maximum at 560 nm. The assay is useful over the range of 0.1-10 nmol of Sorbitol per sample.

Applications

The assay is useful over the range of 0.1-10 nmol of Sorbitol per sample.

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

Sorbitol Assay Buffer; Sorbitol Probe; Sorbitol Enzyme Mix; Sorbitol Developer; Sorbitol Standard (100

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mM)

Detection method Absorbance (560 nm)

Features & Benefits

Simple procedure; takes ~ 35-40 minutes;
Fast and convenient;
The kit provides an accurate assay for measuring sorbitol in various samples

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