CREATIVE BIOMART®
Assay Kit

Sorbitol Dehydrogenase Colorimetric Assay Kit

Product Information

Cat.No. Kit-0778

Product Overview

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

Description

SORBITOL DEHYDROGENASE (SDH) is an enzyme that catalyzes the interconversion of sorbitol and fructose. Elevated blood serum SDH levels indicate liver damage; thus, SDH plays an important role in the diagnosis of liver disease, especially in combination with aminotransferases. SDH levels are also measured to evaluate diabetic complications such as proliferative diabetic retinopathy.This non-radioactive, colorimetric SDH assay is based on the reduction of the tetrazolium salt MTT in a NADH-coupled enzymatic reaction to a reduced form of MTT which exhibits an absorption maximum at 565 nm. The increase in absorbance at 565 nm is directly proportional to the enzyme activity.

Applications

SDH activity determination in biological samples (e.g. plasma, serum, urine, tissue and culture media.)

Usage

For research use only (RUO)

Storage

Store all components at -20 °C upon receiving.

Kit Components

Assay Buffer 10 mLDiaphorase 120 µLSubstrate 250 µLCalibrator 1.5 mLNAD/MTT Solution 1 mL

Detection method Colorimetric

Compatible Sample Types

Culture media, Plasma, Serum, Tissue, Urine

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Features & Benefits

Fast and sensitive. Linear detection range (20 µL sample): 0.1 to 125 U/L for 12 min reaction.Convenient and high-throughput. 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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