

Sorbitol Dehydrogenase Colorimetric Assay Kit

Cat. No. Kit-0778 **Lot. No.** (See product label)

SPECIFICATION

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 mL Diaphorase 120 µL Substrate 250 µL Calibrator 1.5 mL NAD/MTT Solution 1 mL
Detection method	Colorimetric

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Compatible Sample Types

Culture media, Plasma, Serum, Tissue, Urine

Features & Benefits

Fast and sensitive. Linear detection range (20 μ 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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