CREATIVE BIOMART®
Assay Kit

Glucose-6-Phosphate Dehydrogenase Kit

Product Information

Cat

Kit-2450

Cat.No. Kit-2450

Product Overview

GLUCOSE-6-PHOSPHATE DEHYDROGENASE (G6PDH) is a cytosolic enzyme in the pentose phosphate pathway which supplies reducing energy to cells by maintaining the level of the co-enzyme nicotinamide adenine dinucleotide phosphate (NADPH). G6PDH reduces nicotinamide adenine dinucleotide phosphate (NADP) to NADPH while oxidizing glucose-6-phosphate (G6P). Humans with a genetic deficiency of G6PDH are predisposed to non-immune hemolytic anemia. The non-radioactive, colorimetric G6PDH assay is based on the reduction of the tetrazolium salt MTT in a NADPH-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 proportional to the enzyme activity.

Storage

-20°C

Shipping

RT

Size

100 tests

Detection method OD460nm

Compatible Sample Types

Plasma, serum, tissue and culture media, etc

Features & Benefits

Fast and sensitive. Linear detection range (20 µL sample): 0.2 to 100 U/L for 15 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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Assay time
20 min
Sensitivity
0.2 U/L

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