

## 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.

## Glucose-6-Phosphate Dehydrogenase Kit

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**

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20 min

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**Sensitivity**

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0.2 U/L

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