

Glucose-6-Phosphate Dehydrogenase Kit

Cat. No. Kit-2450 **Lot. No.** (See product label)

SPECIFICATION

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.

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Can be readily automated on HTS liquid handling systems for processing thousands of samples per day.

Assay time	20 min
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Sensitivity	0.2 U/L
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