

Glucose-6-Phosphate Dehydrogenase (G-6-PD) Assay Kit | G-6-PD assay kit

Glucose-6-Phosphate Dehydrogenase (G-6-PD) Activity Assay Kit

CATALOG #
AAA177785

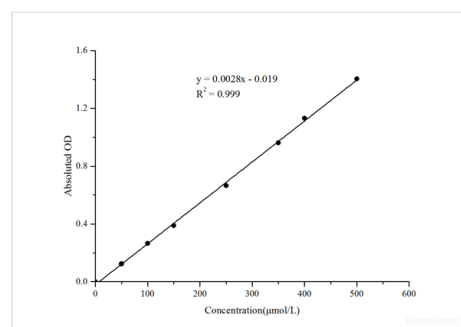
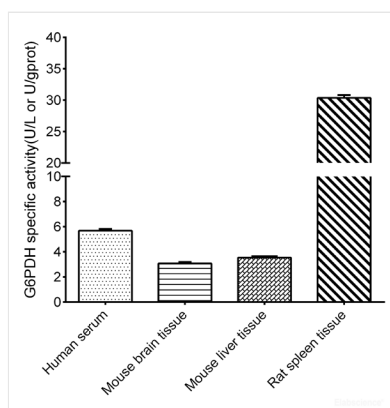
PRODUCT SYNONYMS

Glucose-6-Phosphate Dehydrogenase (G-6-PD); Glucose-6-Phosphate Dehydrogenase (G-6-PD) Activity Assay Kit; G-6-PD assay kit

PRODUCT SPECIFICATIONS

Samples	Serum, plasma and animal tissue samples
Detection Range	0.01-50 U/L
Sensitivity	0.01 U/L
Preparation and Storage	Store at -20 degree C. Valid for 12 months

IMAGES



Standard Curve (Sample)

Application Data

ADDITIONAL INFORMATION

Related Product Information for G-6-PD assay kit

Intended Uses: This kit can be used to measure Glucose-6-Phosphate Dehydrogenase (G-6- PD) activity in serum, plasma and animal tissue samples.

Principle of the Assay: Under the presence of G-6-PD, glucose-6-phosphoric acid is oxidized to 6-PG, NADP+ is reduced to NADPH. Under the action of electron coupling reagent 1-MPMS, NADPH reduce WST-8 to form orange formazan, which has the maximum absorption peak at about 450 nm. Formazan generated in the reaction system is proportional to the activity of G-6-PD in the sample.

Background/Introduction: Glucose-6-phosphate dehydrogenase (G-6-PD) is a cytosolic enzyme in the pentose phosphate pathway, it can catalyze the conversion of glucose-6- phosphate to internal lipids of 6-phosphate gluconate, which is the first step of the pentose phosphate pathway and the rate-limiting step of the pathway. Pentose-phosphate pathway can provide energy to cells (such as red blood cells) by maintaining the level of coenzyme nicotinamide adenine dinucleotide phosphate (NADPH). The pentose phosphate pathway is vital for the generation of NADPH and pentose, so the lack of G-6-PD which can't generate NADPH leads to some diseases, such as neonatal jaundice, non-immune hemolytic anemia.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/assay-kits/glucose-6-phosphate-dehydrogenase-g-6-pd/177785>