

Glucose-6-Phosphate Assay Kit

Cat. No. Kit-0349 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Glucose-6-Phosphate Assay Kit is a fluorescence-based method for quantification of glucose-6-phosphate.
Description	Glucose-6-phosphate (G6P) is a key intermediate for glucose transport into cells which then enters either metabolic pathways or storage. G6P can enter the glycolytic pathway, the pentose phosphate shunt or be stored as glycogen or starch. G6P is utilized by its dehydrogenase to generate reducing equivalents in the form of NAD(P)H. This is particularly important in red blood cells where a G6PDH deficiency leads to hemolytic anemia. Glucose-6-Phosphate Assay Kit is a simple, sensitive and rapid means of quantifying G6P in a variety of samples. In the assay, glucose-6-phosphate is oxidized with the generation of a product that converts a nearly colorless probe to an intensely fluorescent product (Ex/Em = 535/587 nm). The Glucose-6-phosphate Assay Kit can detect G6P in the range of 10 to 500 pmoles which is equivalent to the range of 1-500 μ M in the original sample assuming a dilution of 5X during processing. This kit is sensitive for low G6P samples.
Target Species	Mammals
Usage	For research use only (RUO)
Storage	Store kit at -20°C , protect from light. Warm G6P Assay Buffer to room temperature before use. Briefly centrifuge all small vials prior to opening. Keep enzyme mix on ice while in use.

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Kit Components	G6P Assay Buffer 25 ml WMPicoProbe (in DMSO) 0.4 ml BlueG6P Enzyme Mix lyophilized GreenG6P Substrate Mix lyophilized RedG6P Standard (10 µmol) lyophilized Yellow
Detection method	Fluorometric
Compatible Sample Types	Biological Fluid, Cell Culture Supernatant, Growth Medium, Plasma, Serum, Tissue Culture Supernatant, Urine

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