



## Glucose-6-Phosphate Assay Kit II

### Product Information

#### Cat.No.

Kit-0350

#### Product Overview

Glucose-6-Phosphate Assay Kit is used for quantifying G6P.

#### Description

Glucose-6-phosphate (G6P) is a key sugar intermediate for glucose to get into cells, and then enter 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 NADPH. This is particularly important in red blood cells where a G6PDH deficiency leads to hemolytic anemia. The 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 which is utilized to convert a nearly colorless probe to an intensely colored product with an absorbance at 450 nm. The Glucose-6-phosphate Assay Kit can detect G6P in the range of 1 to 30 nmoles with detection sensitivity  $\sim 10 \mu\text{M}$  of G6P.

#### Target Species

Mammals

#### Usage

For research use only (RUO)

#### Storage

Store kit at  $-20^{\circ}\text{C}$ , 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.

#### Kit Components

G6P Assay Buffer. 25 ml G6P Enzyme Mix (Lyophilized). 1 vial G6P Substrate Mix (Lyophilized). 1 vial G6P Standard ( $10 \mu\text{mol}$ , Lyophilized). 1 vial



CREATIVE **BIOMART**<sup>®</sup>  
Assay Kit

## Glucose-6-Phosphate Assay Kit II

**Detection method** Colorimetric

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**Compatible Sample Types**

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Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine

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