

Glucose-6-Phosphate Content Assay kit

Glucose-6-Phosphate (G6P), also known as glucose-6-phosphate, is an intermediate product of the glycolysis and pentose phosphate pathways and is widely present in plants, animals and microorganisms. In the first step of glycolysis, glucose is catalyzed by hexokinase to produce glucose-6-phosphate, which is then catalyzed by phosphoglucose isomerase to form fructose-6-phosphate to continue the other steps of glycolysis. In the pentose phosphate pathway, glucose-6-phosphate is its first substrate, and this process is also the main way to generate NADPH. In addition, glucose-6-phosphate can also be converted to form glycogen or starch. Glucose-6-phosphate dehydrogenase catalyzes the formation of 6-phosphogluconic acid and NADPH from G-6-P and NADP⁺, with an absorption peak at 340nm, from which the content of glucose-6-phosphate can be calculated.

Catalog No.	250596
Size	50 Assays / 100 Assays
Product Category	Colorimetric Assay
Detection Method	Spectrophotometry / Micro-Plate Reader
Storage/Stability	-20°C/6 months
Shipping	Gel Packs