

## Glucose Assay Kit (Spectrophotometry)

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder -20°C for 3 years  
In solvent -80°C for 2 years

Actual storage temperature shall be subject to the COA.

## Biological Description

## Description

Glucose is not only the primary substrate for cellular energy metabolism, but its metabolic intermediates also serve as important substrates for biosynthesis. Plants can produce glucose through photosynthesis. In mammals, glucose is not only the sole energy source for the brain and nervous system, muscles, and adipose tissue, but is also closely involved in the synthesis of reducing coenzymes, lactose, and milk fat. Glucose in mammalian blood is referred to as blood glucose and represents the main transport form of carbohydrates in the body. Blood glucose concentration is regulated by the nervous system and hormones and is maintained at a relatively stable level. When this regulation is disrupted, hyperglycemia or hypoglycemia may occur. Diabetes mellitus, increased intracranial pressure, and dehydration can all lead to hyperglycemia; physiological hyperglycemia may also occur after meals or during mental stress. Conversely, hypoglycemia may be observed in conditions such as hyperplasia or tumors of pancreatic  $\beta$  cells, hypofunction of the pituitary, adrenal cortex, and thyroid gland, as well as in patients with severe liver disease. In addition, fasting and strenuous exercise can cause transient hypoglycemia.

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