CREATIVE BIOMART®
Assay Kit

Glucose Content Assay Kit

Product Information

Product Overview

Significance: Glucose is the primary substrate for cellular energy metabolism and a key precursor for biosynthetic pathways. In plants, glucose is produced through photosynthesis. In mammals, glucose serves as the major energy source for the brain, nervous system, muscle, and adipose tissues and is closely associated with the synthesis of reducing cofactors, lactose, and lipids.
Principle: Glucose oxidase catalyzes the oxidation of glucose to gluconic acid with the production of hydrogen peroxide. In the presence of peroxidase, hydrogen peroxide oxidizes 4-aminoantipyrine and phenol to form a colored compound with a characteristic absorbance at 505 nm.

Size

100t/96s

Storage

Store at 2–8 °C. Shelf life: 6 months.

Detection method Spectrophotometer/Microplate Reader

Materials Required but Not Supplied

Visible spectrophotometer or microplate reader, water bath, adjustable pipettes, quartz cuvettes or 96-well plates, mortar and pestle, distilled water.

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