CREATIVE BIOMART®
Assay Kit

Blood Glucose Content Assay Kit

Product Information

Product Overview

Glucose in the blood of mammals is referred to as blood glucose, and it is the primary form of carbohydrate transport within the body. The concentration of blood glucose is maintained relatively stable through regulation by the nervous system and hormones. When this regulation is imbalanced, hyperglycemia and hypoglycemia can occur. Glucose is oxidized by glucose oxidase to form gluconic acid and produce hydrogen peroxide. Peroxidase catalyzes the oxidation of hydrogen peroxide and 4-aminoantipyrine with phenol to generate a colored compound. By detecting the characteristic absorption peak of this colored compound at 510 nm, the blood glucose content can be determined.

Size

500 Samples

Storage

-20□

Shipping

Ice pack

Kit Components

Reagent One: Powder, mg × 1 vial, store at -20°C. Before use, add 11mL of distilled water to dissolve and reserve.

Reagent Two: Liquid, 90mL × 1 bottle, store at 4°C.

Standard Tube: Powder, mg × 1 vial, store at 4°C. Before use, accurately weigh 2mg of powder (i.e., glucose) into a new EP tube, then add 2mL of distilled water to fully dissolve to obtain a 1mg/mL standard solution, ready for use.

Materials Required but Not Supplied

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Microplate reader, 96-well plate, balance, pipette, mortar, centrifuge, distilled water

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