D-Glucose Solution, 45%

Contains 450 g/L D-Glucose in Cell Culture Water

Cat. No. CGLC001, CGLC0012 | Size: 100 ML / 500 ML

1. Product Description

D-Glucose acts as the most important energy source for cells to live and proliferate, making it an essential component in cell culture. D-Glucose undergoes glycolysis within the cell to become pyruvate, which then produces cellular energy (ATP and GTP) through the Krebs cycle. Therefore, sufficient glucose during cell culture can help achieve high-efficiency cell proliferation. This product is a high-concentration 45% solution and should be diluted considering the cell type and culture objectives.

2. Composition

Components	g/L
D-Glucose	450

3. Product Quality Specifications

Appearance	pH	Osmolality	Sterility
Colorless clear liquid	pH 4.0 ~ 7.0	240 ~ 280 mOsm/kg H_2O*	Sterile

*Measured after 1/10 dilution.

4. Storage Conditions and Precautions

Protect from direct light and store refrigerated (2~8°C). The expiration date is indicated on the product label; do not use expired products. Product degradation may appear as precipitates, floating particles, turbidity, or color change; discard if any are observed. Storing against the inner walls of a refrigerator where temperatures may approach 0°C can cause degradation due to ice crystal formation. The addition of extra substances may also cause degradation.

5. Usage Instructions and Precautions

This product is a sterile solution. Open the cap only in a sterile environment (e.g., a clean bench) using aseptic technique. It is recommended to use the entire contents after opening; otherwise, aliquot into a suitable sterile container and store properly.