Sodium Bicarbonate Solution, 7.5%

Contains 75.0 g/L Sodium Bicarbonate in Cell Culture Water

Cat. No. CSDBC001 | Size: 100 ML / 500 ML

1. Product Description

Sodium Bicarbonate ($NaHCO_3$) is a representative substance used to maintain the pH of culture media during cell culture in an environment where the CO_2 concentration in the air is 4~10%. Sodium Bicarbonate has almost no cytotoxicity and is included in most cell culture media. The usage concentration of Sodium Bicarbonate varies depending on the type of medium: DMEM is 3.7 g/L, MEM, Alpha-MEM, M199, and McCoy's 5A are 2.2 g/L, RPMI1640 is 2.0 g/L, and DMEM/F12 is 1.2 g/L. This product (Cat. No. CSDBC001) is a high-concentration solution of 7.5% (75.0 g/L) and should be diluted to an appropriate concentration depending on the cell type and culture conditions.

2. Composition

Component	g/L
Sodium Bicarbonate ($NaHCO_3$)	75.0

3. Product Quality Specifications

Appearance	pH	Osmolality (1/10 diluted)	Sterility
Colorless clear liquid	pH 7.8 ~ 8.4	150 ~ 184 mOsm/kg H_2O	Sterile

4. Storage Conditions and Precautions

Store at refrigerated temperatures (2~8°C) protected from direct light. The expiration date is indicated on the product label; do not use expired products. Product degradation during storage 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.