

Sodium bicarbonate Solution 7.5%

Product Code: TCL013

Product Description:

Molecular Formula: NaHCO_3

Molecular Weight: 84.01

CAS No.: 144-55-8

Sodium bicarbonate is the most commonly used biological buffer in cell culture media and reagents. It is typically added to cell culture media to maintain the physiological pH of a culture and to avoid undesirable fluctuations of pH due to cell metabolism that may have negative effects on cell parameters. As the cells grow, CO_2 is produced as a by product of metabolism. CO_2 dissolves freely in the medium and reacts with water to form carbonic acid which in turn decreases the pH of the medium. Sodium bicarbonate improves the pH control of medium incubated in a 5-10% CO_2 atmosphere. It also supplies the carbonate ion required in tissue metabolism.

TCL013 is sterile filtered 7.5% sodium bicarbonate solution.

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Cultural Response

No toxicity to cells.

Endotoxin Content

NMT 0.5 EU/ml

Storage and Shelf Life:

Store at 15-30°C away from bright light.

Shelf life is 24 months.

Use before expiry date given on the product label.

Quality Control:

Appearance

Colorless, clear solution.

pH

7.80 - 8.40

Osmolality in mOsm/Kg H_2O

1400.00 -1600.00

Disclaimer :

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