

Technical Information

Sodium Bicarbonate Solution 7.5% Sterile Filtered

Product Code:TCL1013

Application:-

Molecular Formula: NaHCO₃

Molecular Weight: 84.01

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, CO₂ is produced as a by product of metabolism. CO₂ 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% CO₂ atmosphere. It also supplies the carbonate ion required in tissue metabolism.

TCL1013 is sterile filtered 7.5% sodium bicarbonate solution.

Quality control

Appearance

Colorless, clear solution.

pH

7.80 -8.40

Osmolality in mOsm/Kg H₂O

1400.00 -1600.00

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 5EU/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.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at CDH is true and accurate.
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