



Sodium bicarbonate Solution 7.5%

Product Code: TCL013

Product Description:

Molecular Formula: NaHCO₃

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, 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.

TCL013 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 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.

Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ Publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

Revision: 03/2022