



Product Specification

dhfinechemical.con

Technical Information

Hank's Balanced Salt Solution 1X With Sodium bicarbonate Without Phenol red

Product Code: TL2010

Application:- All media used in tissue culture have a basis of a synthetic mixture of inorganic salts known as a physiological or balanced salt solution (BSS). All the physiological salt solutions have been derived from the salt solution originally described by Sydney Ringer (1885). The first balanced salt solution to be developed specifically for supporting the metabolism of mammalian cells was Tyrode's solution. Since then many modifications have been done to obtain better buffering salt solutions and to prevent calcium precipitation.

The function of a salt solution is:

- To maintain the medium within physiological pH range.
- To maintain intracellular and extra cellular osmotic balance.
- Modified with a carbohydrate, such as glucose serves as an energy source for cell metabolism.

Hank's balanced salt solution is designed to equilibrate with air, hence does not require CO_2 air mixture.

TL2010 is Hank's balanced salt solution with sodium bicarbonate. It is designed for use with cells maintained in less CO₂ environment or CO₂ free environment. It does not contain phenol red.

Composition**

Composition	
Ingredients	mg / Litre
INORGANIC SALTS	
Calcium chloride dihydrate	185.410
Disodium hydrogen phosphate	48.000
Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Potassium dihydrogen phosphate anhydrous	60.000
Sodium bicarbonate	350.000
Sodium chloride	8000.000
OTHERS	
D-Glucose	1000.000

Quality control

Appearance

Colorless, clear solution.

рΗ

7.10 -7.70

Osmolality in mOsm/Kg H₂O

265.00 -305.00

Sterility

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

Toxicity test

Passes

Endotoxin Content

NMT 1EU/ml





Product Specification

cdhfinechemical.com

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.
- Central Drug House 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 of diagnostic reagents extra.
- 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.
- Do not use the products if it fails to meet specifications for identity and performance parameters.