



## **Product Specification**

cdhfinechemical.com

## **Technical Information**

# Hank's Balanced Salt Solution 1X With Sodium bicarbonate Without Calcium, Magnesium and Phenol red

Product Code: TL2098

**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. TL2098 is Hank's balanced salt solution with sodium bicarbonate and is designed for use with cells maintained in less  $CO_2$  environment or  $CO_2$  free environment. It does not contain calcium, magnesium and phenol red.

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Composition			
Ingredients	mg / Litre		
INORGANIC SALTS			
D-Glucose	1000.000		
Disodium hydrogen phosphate	48.000		
Potassium chloride	400.000		
Potassium dihydrogen phosphate anhydrous	60.000		
Sodium bicarbonate	350.000		
Sodium chloride	8000.000		

### **Quality control**

#### Appearance

Colourless, clear solution

рΗ

7.10 -7.70

Osmolality in mOsm/Kg H<sub>2</sub>O

260.00 -300.00

Sterility

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

Toxicity test

Passes

**Endotoxin Content** 

NMT 1 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.





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### 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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- Do not use the products if it fails to meet specifications for identity and performance parameters.