

# **Technical Information**

## Hank's Balanced Salt Solution 10X

With Phenol red

Without Calcium chloride, Magnesium sulphate and Sodium bicarbonate

## Product Code: TL2122

**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<sub>2</sub> air mixture.

TL2122 is 10X Hank's balanced salt solution with phenol red. It does not contain calcium chloride, magnesium sulphate and sodium bicarbonate. It is designed for use with cells maintained in less CO<sub>2</sub> environment or CO<sub>2</sub> free environment.

## Composition\*\*

mg / Litre
480.000
4000.000
600.000
80000.000
10000.000
110.000

# Methodology

1. Add 4.7ml of 7.5% sodium bicarbonate solution (TCL1013) in 1X balanced salt solution prior to use.

# Material required but not provided

Sodium bicarbonate solution 7.5% (TCL1013)





# **Product Specification**

cdhfinechemical.com

## **Quality control**

#### Appearance

Orangish red colored, clear solution

#### pH at 10X

5.50 -6.10

#### pH at 1X

6.20 -6.80

#### Sterility

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

#### Toxicity test

Passes

#### **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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