



Hanks' Balanced Salt Solution 1X

With Phenol red and Sodium bicarbonate

Product Code: TL1003

Product Description:

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.

Hanks' balanced salt solution is designed to equilibrate with air, hence does not require CO₂ air mixture.

TL1003 is Hanks' balanced salt solution with phenol red and sodium bicarbonate. It is designed for use with cells maintained in less CO_2 environment or CO_2 free environment.

Composition:

Ingredients	mg/L
INORGANIC SALTS	
Calcium chloride dihydrate	185.410
Disodium hydrogen phosphate	48.000
Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Potassium dihydrogen phosphate	60.000
anhydrous	

Sodium bicarbonate	350.000
Sodium chloride	8000.000
OTHERS	
D-Glucose	1000.000
Phenol red sodium salt	11.000

Quality Control:

Appearance

Red colored, clear solution

pН

7.20 -7.80 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

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 :

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