Hanks' Balanced Salt Solution 1X

With Sodium bicarbonate

Without Calcium, Magnesium and Phenol red

Product Code: TL1098

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 CO_2 air mixture. TL1098 is Hanks' 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.

Composition :

Ingredients	mg/L
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

pH
7.10 -7.70

Osmolality in mOsm/Kg H_2O
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 way from bright light.
Shelf life is 24 months.
Use before expiry date given on the product label.

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CE	CE Marking
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