Phosphate Buffered Saline, pH 7.4, 1X

With Phenol red

Product Code: TL1126

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.

TL1101 is 1X Phosphate Buffered Saline, pH 7.4. It does not contain calcium and magnesium and hence most commonly used for tissue disaggregation and monolayer dispersal since presence of calcium and magnesium ions may hinder the trypsin activity. It is also used for routine immunohistochemical testing and as a general purpose solution for washing cells in various hematological and molecular biology procedures.

Composition :

Ingredients	mg/L
INORGANIC SALTS	
Disodium hydrogen phosphate anhydrous	795.000
Potassium dihydrogen phosphate	144.000
Sodium chloride	9000.000
OTHERS	
Phenol red sodium salt	11.000

Quality Control:

Appearance
Red clolured clear solution

pH
7.35 -7.45

Osmolality in mOsm/Kg H_2O
280.00 -320.00

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

Toxicity testing
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.

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