

Technical Information

Phosphate Buffered Saline, pH 7.2 20X

Product Code: TL2033

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. .
- When modified with a carbohydrate such as glucose, it serves as an energy source for cell metabolism.

TL2033 is 20X Phosphate Buffered Saline, pH 7.2. It is 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 / Litre
INORGANIC SALTS	
Disodium hydrogen phosphate anhydrous	14520.000
Potassium dihydrogen phosphate	4200.000
Sodium chloride	18000.000

Quality control

Appearance

Colorless, clear solution

pH at 20X

6.10 – 6.40

pH at 1X

7.00 -7.40

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.
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