Phosphate Buffered Saline, pH 7.4 1X

Product Code: TL1101

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 (7.2 - 7.6).
· 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 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.

Quality Control:
Appearance
Colorless, clear solution.

pH
7.35 - 7.45

Osmolality in mOsm/Kg H2O
280.00 - 320.00

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

Cultural Response
No lysis of cells in 24 - 48 hours.

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.

Composition:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>mg/L</th>
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</thead>
<tbody>
<tr>
<td>Disodium hydrogen phosphate anhydrous</td>
<td>795.000</td>
</tr>
<tr>
<td>Potassium dihydrogen phosphate</td>
<td>144.000</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>9000.000</td>
</tr>
</tbody>
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