

# Dulbecco's Phosphate Buffered Saline 5X

With Calcium and Magnesium  
Without Phenol red

**Product Code: TL1028**

## 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.

TL1028 is 5X Dulbecco's Phosphate Buffered Saline with calcium and magnesium. It does not contain phenol red.

## Composition :

| Ingredients                         | mg/L      |
|-------------------------------------|-----------|
| <b>INORGANIC SALTS</b>              |           |
| Calcium chloride dihydrate          | 665.000   |
| Disodium hydrogen phosphate         | 5750.000  |
| Magnesium chloride                  | 500.000   |
| Potassium chloride                  | 1000.000  |
| Potassium dihydrogen orthophosphate | 1000.000  |
| Sodium chloride                     | 40000.000 |

## Quality Control:

### Appearance

Colorless, clear solution

### pH at 5X

5.70 -6.30

### pH at 1X

6.00 -6.60

### 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.

## Disclaimer :

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