

Technical Information

Dulbecco's Phosphate Buffered Saline 1X With Calcium and Magnesium Without Phenol red

Product Code: TL2023

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

TL2023 is Dulbecco's Phosphate Buffered Saline with calcium and magnesium. It does not contain phenol red.

Composition**

Ingredients	mg / Litre
INORGANIC SALTS	
Calcium chloride dehydrate	133.000
Disodium hydrogen phosphate	1150.000
Magnesium chloride hexahydrate	100.000
Potassium chloride	200.000
Potassium dihydrogen orthophosphate	200.000
Sodium chloride	8000.000

Quality control

Appearance

Colorless, clear solution

pH

7.00 -7.60

Osmolality in mOsm/Kg H₂O

270.00 -310.00

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.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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