

### Technical Information

#### Krebs-Ringer Bicarbonate Buffer 1X With 1.8gms Glucose per liter and Sodium bicarbonate Without Calcium Chloride

#### Product Code: TL2097

**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 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.

TL2097 is Krebs-Ringer Bicarbonate Buffer with 1.8gms Glucose per liter and sodium bicarbonate.

#### Composition\*\*

Ingredients	mg / Litre
<b>INORGANIC SALTS</b>	
Disodium hydrogen phosphate anhydrous	100.000
Magnesium chloride anhydrous	46.800
Potassium chloride	340.000
Sodium bicarbonate	1260.000
Sodium chloride	7000.000
Sodium dihydrogen phosphate anhydrous	180.000
<b>OTHERS</b>	
D-Glucose	1800.000

#### Quality control

##### Appearance

Clear, colourless solution

##### pH

7.00 -7.60

##### Osmolality in mOsm/Kg H<sub>2</sub>O

240.00 -280.00

##### Sterility

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

##### Toxicity test

Passes

##### Endotoxin Content

NMT 1 EU/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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