



Product Specification

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Technical Information

Krebs-Ringer Bicarbonate Buffer 1X

With Calcium chloride, HEPES buffer, 0.2% Bovine serum albumin and Sodium bicarbonate

Without Glucose

Product Code: TL2143

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.

TL2I43 is Krebs-Ringer Bicarbonate Buffer with Calcium chloride, HEPES buffer, 0.2% bovine serum albumin and sodium bicarbonate. HEPES, a zwitterionic buffer having a pKa of 7.3 at 37°C prevents the initial rise in pH that tends to occur at the initiation of a culture and increases the buffering

Ingredients	mg / Litre	
INORGANIC SALTS	<u> </u>	
Calcium chloride dehydrate	367.000	
Magnesium cloride hexahydrate	223.000	
Potassium chloride	372.000	
Sodium bicarbonate	1260.00	
Sodium chloride	7012.00	
OTHERS		
Bovine serum albumin	2000.000	
HEPES buffer	2383.000	
Quality control Appearance		
Colorless, clear solution		
pH		
6.70 – 7.30		
Osmolality in mOsm/Kg H₂O		
250.00 – 290.00		
Sterility		
No bacterial or fungal growth is observ	ed after 14 days of incubatior	, as per USP specification.
Toxicity test		

Passes

Endotoxin Content

NMT 1EU/ml





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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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