



Product Specification

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Technical Information

Earle's Balanced Salt Solution 1X

With Sodium bicarbonate Without Calcium, Magnesium and Phenol red

Product Code: TL2107

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.

Earle's balanced salt solution is designed to equilibrate with a 5% CO₂ in air mixture. TL2107 is Earle's balanced salt solution with sodium bicarbonate hence requires the cells to be grown in a 5% CO₂ environment. It does not contain calcium, magnesium and phenol red.

Composition**		
Ingredients	mg / Litre	
INORGANIC SALTS		
Potassium chloride	400.000	
Sodium bicarbonate	2200.000	
Sodium chloride	6800.000	
Sodium dihydrogen orthophosphate OTHERS	122.000	
Dextrose anhydrous	1000.000	
Quality control		
Appearance		
Clear colourless solution		
рН		
7.40 -8.00		
Osmolality in mOsm/Kg H2O		
265.00 -305.00		
Sterility		
No bacterial or fungal growth is observe	d 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	abel.	





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Disclaimer:

- User must ensure suitability of the product(s) in their application prior to use.
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