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Technical Datasheet

Earle's Balanced Salt Solution 1X

With Sodium bicarbonate and Phenol red
Without Calcium and Magnesium

Product Code: TL1110

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.

Earle's balanced salt solution is designed to equilibrate with a 5% CO_2 in air mixture. TL1110 is Earle's balanced salt solution with sodium bicarbonate and phenol red hence requires the cells to be grown in a 5% CO_2 environment. It does not contain calcium and magnesium.

Composition:

Ingredients	mg/L
INORGANIC SALTS	
Potassium chloride	0.400
Sodium bicarbonate	2.200
Sodium chloride	6.800
Sodium dihydrogen orthophosphate	0.122
OTHERS	
Dextrose anhydrous	1.000
Phenol red sodium salt	0.011

Quality Control:

Appearance
Red colored, clear solution

pH
7.00 -7.60

Osmolality in mOsm/Kg H_2O
265.00 -305.00

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

Toxicity test
Passes

Endotoxin Content
NMT 1EU/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.

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