

Technical Information

M16 Medium

With Sodium bicarbonate and Sodium lactate

Product Code: AL1143

Application:- M16 Medium is a modified Kreb's-Ringer bicarbonate solution used for culture of preimplantation stage mouse embryos. Pyruvate and lactate present in the medium serve as energy sources since preimplantation embryos do not utilize glucose efficiently.

AL1143 is M16 medium with sodium bicarbonate and sodium lactate. It does not contain penicillin, streptomycin and HEPES buffer. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements.

Composition**

Ingredients	mg/Litre
INORGANIC SALTS	
Calcium chloride dihydrate	251.000
Magnesium chloride anhydrous	165.00
Potassium chloride	356.00
Potassium dihydrogen phosphate	162.00
Sodium bicarbonate	2101.000
Sodium chloride	5532.00
OTHERS	
Albumin bovine fraction V	4000.000
D-Glucose	1000.00
Lactic acid sodium salt	2950.000
Phenol red sodium salt	10.000
Pyruvic acid sodium salt	36.000

Methodology

Supplement with 0.06g/L Penicillin G potassium salt(TC1187) and 0.05 g/L Streptomycin sulfate (TC1035)

Material Required But Not Provided

Penicillin G potassium salt (TC1187)
Streptomycin sulphate (TC1035)

Quality control

Appearance : Orangish red coloured, clear solution

pH : 7.00 -7.60

Osmolality in mOsm/Kg H₂O

290.0 -330.00

Sterility

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

Cultural Response

The growth promotion capacity of the medium is assessed qualitatively by analyzing the cells for the morphology and quantitatively by estimating the cell counts .

Endotoxin Content

NMT 1EU/ml

Storage and Shelf Life

Store at 2-8°C away from bright light. Shelf life is 12 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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