



Product Specification

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Technical Information

Medium 199

With Earle's salts, 25mM HEPES buffer, L- Glutamine and Sodium bicarbonate 1X Liquid cell Culture Medium

Product Code: AL1094A

Application:- Medium 199 was the first nutritionally defined medium developed by Morgan, Morton, and Parker in 1950. This complex medium was formulated specifically for nutritional studies on primary chick embryo fibroblasts in the absence of any additives. It was observed that explanted tissue could survive in Medium 199 without serum but long term cultivation of cells required supplementation of the medium with serum.

Media 199 are formulated with either Hank's salts or Earle's salts. The medium when supplemented with serum can be used for growth of a wide variety of cells. Media 199 are presently used for the maintenance of non-transformed cells, vaccine and virus production and primary explants of epithelial cells.

AL1094A is Medium 199 with Earle's salts, 25mM HEPES buffer, L-glutamine 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 capacity of the medium. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

Composition**						
Ingredients	mg / Litre					
INORGANIC SALTS						
Calcium chloride dihydrate	265.000					
Ferric nitrate nonahydrate	0.720					
Magnesium sulphate anhydrous	97.720					
Potassium chloride	400.000					
Sodium acetate anhydrous	50.000					
Sodium bicarbonate	2200.000					
Sodium chloride	6800.000					
Sodium phosphate monobasic	122.000					
AMINO ACIDS						
Glycine	50.000					
L-Alanine	25.000					
L-Arginine hydrochloride	70.000					
L-Aspartic acid	30.000					
L-Cysteine hydrochloride monohydrate	0.100					
L-Cystine dihydrochloride	26.000					
L-Glutamic acid	67.000					
L-Glutamine	100.000					
L-Histidine hydrochloride monohydrate	22.000					
L-Hydroxyproline	10.000					
L-Isoleucine	20.000					
L-Leucine	60.000					
L-Lysine hydrochloride	70.000					
L-Methionine	15.000					
L-Phenylalanine	25.000					
L-Proline L. c. :	40.000					
L-Serine	25.000					
L-Threonine	30.000					





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10.000
57.660
25.000
0.050
0.100
0.500
0.010
0.010
0.010
0.010
0.010
0.025
0.025
0.025
0.025
0.140
0.010
0.010
0.050
0.050
10.000
1.000
0.200
0.200
0.500
1000.000
0.050
0.300
5958.000
0.354
15.000
4.900
0.500
0.300
0.300

Quality Control

Appearance

Orangish red colored, clear solution.

рΗ

7.00 -7.60

Osmolality in mOsm/Kg H₂O

285.00 -325.00





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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 and comparing it with a control medium through minimum three subcultures.

Endotoxin Content

NMT 5EU/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.
- 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.
- Central Drug House Pvt. Ltd. reserves the right to make changes to specifications and information related to the products at any time.
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- Do not use the products if it fails to meet specifications for identity and performance parameters.