



Product Specification

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Technical Information

Medium 199

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

Product Code: AL1209A

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

AL1209A is Medium 199 with Hank'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. It does not contain L-Glutamine. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

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Ingredients	mg/Litre
INORGANIC SALTS	
Calcium chloride dehydrate	185.000
Ferric nitrate nonahydrate	0.720
Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Potassium phosphate monobasic	60.000
Sodium acetate anhydrous	50.000
Sodium bicarbonate	350.000
Sodium chloride	8000.000
Sodium phosphate dibasic	47.860
AMINO ACIDS	
Glycine	50.000
L-Alanine	25.000
L-Arginine hydrochloride	70.000
L-Aspartic acid	30.000
L-Cysteine hydrochloride monohydrate	
L-Cystinedihydrochloride	26.000
L-Glutamic Acid	67.000
L-Glutamine	100.000
L-Histidine hydrochloride monohydrate	
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	40.000





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The same of the sa	7000	cummeenemeal.com
L-Serine	25.000	
L-Threonine	30.000	
L-Tryptophan	10.000	
L-Tyrosine disodium salt	57.660	
L-Valine	25.000	
VITAMINS		
Ascorbic acid	0.05	
Calciferol	0.100	
Choline chloride	0.500	
D-Biotin	0.01	
D-Ca-Pantothenate	0.010	
DL-Tocopherol phosphate Disodium Salt	0.010	
Folic acid	0.010	
Menadione	0.010	
Nicotinamide	0.025	
Nicotinic acid	0.025	
Pyridoxal hydrochloride	0.025	
Pyridoxine hydrochloride	0.025	
Retinol Acetate	0.140	
Riboflavin	0.010	
Thiamine hydrochloride	0.010	
i-Inositol	0.050	
p-Amino benzoic acid (PABA)	0.050	
OTHERS		
Adenine sulphate	10.000	
Adenosine monophosphate	0.200	
Adenosine triphosphate	1.000	
Cholesterol	0.200	
Deoxyribose	0.500	
Glucose	1000.000	
Glutathione reduced	0.050	
Guanine hydrochloride	0.300	
HEPES Buffer	5958.000	
Hypoxanthine	0.354	
Phenol red sodium salt	15.000	
Polysorbate80	4.900	
Ribose	0.500	
Thymine	0.300	
Uracil	0.300	
Xanthine	0.344	





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Quality Control

Appearance

Red colored, clear solution.

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7.00 -7.60

Osmolality in mOsm/Kg H₂O

230.00 -270.00

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 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
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