



20.000

60.000

70.000

15.000

25.000

40.000

25.000

30.000

10.000

57.660

25.000

0.05

0.100

0.500

0.01

0.010

0.010

0.010

0.010

0.025

0.025

Technical Datasheet

Medium 199

With Earle's salts and Sodium bicarbonate Without L-Glutamine

Product Code: AL014

Product Description:

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. Medium 199 is 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. Medium 199 is presently used for the maintenance of non-transformed cells, vaccine and virus production and primary explants of epithelial cells.

AL014 is Medium 199 with Earle's salts and sodium bicarbonate. 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.

	٧.				•		
•	`^	m	n	ΛC	111	n	n:

	Nicotinic acid	0.025
mg/L	Pyridoxal hydrochloride	0.025
-	Pyridoxine hydrochloride	0.025
265.000	Retinol Acetate	0.140
0.720	Riboflavin	0.010
97.720	Thiamine hydrochloride	0.010
400.000	i-Inositol	0.050
50.000	p-Amino benzoic acid (PABA)	0.050
2200.000	OTHERS	
6800.000	Adenine sulphate	10.000
122.000	Adenosine monophosphate	0.200
	Adenosine triphosphate	1.000
50.000	Cholesterol	0.200
25.000	Deoxyribose	0.500
70.000	Glucose	1000.000
30.000	Glutathione reduced	0.050
0.100	Guanine hydrochloride	0.300
26.000	Hypoxanthine	0.354
67 000	Phenol red sodium salt	15.000
	Polysorbate 80	4.900
10.000	Ribose	0.500
	265.000 0.720 97.720 400.000 50.000 2200.000 6800.000 122.000 50.000 25.000 70.000 30.000 0.100 26.000 67.000 22.000	Pyridoxine hydrochloride Retinol Acetate 0.720 Riboflavin 97.720 Thiamine hydrochloride 400.000 i-Inositol 50.000 p-Amino benzoic acid (PABA) 2200.000 OTHERS 6800.000 Adenine sulphate 122.000 Adenosine monophosphate Adenosine triphosphate 50.000 Cholesterol 25.000 Deoxyribose 70.000 Glucose 30.000 Glutathione reduced 0.100 Guanine hydrochloride Hypoxanthine 67.000 Phenol red sodium salt Polysorbate 80

L-Isoleucine

L-Methionine

L-Phenylalanine

L-Lysine hydrochloride

L-Tyrosine disodium salt

L-Leucine

L-Proline

L-Serine

L-Valine

VITAMINS

Calciferol

D-Biotin

Folic acid

Menadione

Nicotinamide

Nigotinio goid

L-Threonine

L-Tryptophan

Ascorbic acid

Choline chloride

D-Ca-Pantothenate

DL-Tocopherol phosphate Disodium Salt

Thymine	0.300
Uracil	0.300
Xanthine	0.344

Directions:

1. Add 3.42ml of 200mM L-glutamine (TCL012) for 1 litre of medium.

Material required but not provided:

L-Glutamine solution 200mM (TCL012)

Quality Control:

Appearance

Orangish red colored, clear solution

pН

7.00 - 7.60

Osmolality in mOsm/Kg H2O

280.00 -320.00

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 18 months. Use before expiry date given on the product label.

Disclaimer: Revision: 04/2022

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

