



22.000

10.000

20.000

60.000

70.000

15.000

Technical Datasheet

Medium 199

With Hanks' salts and Sodium bicarbonate Without L-Glutamine

Product Code: AL267

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. Media 199 are formulated with either Hanks' 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.

AL267 is Medium 199 with Hanks' 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.

Composition:

Ingredients	mg/L
INORGANIC SALTS	C
Calcium chloride dihydrate	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 chloride	8000.000
Sodium bicarbonate	350.00
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	0.100
L-Cystine dihydrochloride	26.000
L-Glutamic acid	67.000

L-Phenylalanine	25.000
L-Proline	40.000
L-Serine	25.000
L-Threonine	30.000
L-Tryptophan	10.000
L-Tyrosine disodium salt dihydrate	57.660
L-Valine	25.000
VITAMINS	
Ascorbic acid	0.050
Calciferol	0.100
Choline chloride	0.500
D-Biotin	0.010
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	10.000
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

L-Histidine hydrochloride monohydrate

L-Hydroxyproline

L-Lysine hydrochloride

L-Isoleucine

L-Methionine

Hypoxanthine

L-Leucine

0.354

Phenol red	4.900
Polysorbate 80	0.500
Ribose	0.300
Thymine	0.300
Uracil	0.344
Xanthine	15.000

Quality Control:

Appearance

Red colored, clear solution

pН

7.00 - 7.60

Osmolality in mOsm/Kg H2O

290.00 -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 18 months. Use before expiry date given on the product label.

Revision: 04/2022

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