



Product Specification

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Technical Information

Medium 199

With Earle's salts and Sodium bicarbonate Without L-Glutamine 1X Liquid Cell Culture Medium

Product Code: AL1014

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.

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.

AL1014 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.

Composition**	
Ingredients	mg / Litre
INORGANIC SALTS	
Calcium chloride dehydrate	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-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	40.000
L-Serine	25.000
L-Threonine	30.000
L-Tryptophan	10.000
L-Tyrosine disodium salt	57.660
L-Valine	25.000





Product Specification

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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

10.000 Adenine sulphate 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 Hypoxanthine 0.354 Phenol red sodium salt 15.000 Polysorbate 804.900 Ribose 0.500 Thymine 0.300 Uracil 0.300 Xanthine 0.344

Methodology

1. Add 3.42ml of 200mM L-glutamine (TCL1012) for 1 litre of medium.

Material required but not provided

L-Glutamine solution 200mM (TCL1012)

Quality control

Appearance

Orangish red colored, clear solution.

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7.00 -7.60

Osmolality in mOsm/Kg H₂O

280.00 -320.00

Sterility





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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 18 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.
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