



Technical Datasheet

Medium 199

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

Product Code: AL189

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 the absence of any additives. It in 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 explants of epithelial cells. primary AL189 is 10X Medium 199 with Earle's salts. It does not contain L-glutamine and sodium bicarbonate.

Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

Composition:

	ma/I
Ingredients	mg/L
INORGANIC SALTS	
Calcium chloride dihydrate	2650.000
Ferric nitrate nonahydrate	7.200
Magnesium sulphate anhydrous	977.200
Potassium chloride	4000.000
Sodium acetate anhydrous	500.000
Sodium chloride	68000.000
Sodium phosphate monobasic	1220.000
AMINO ACIDS	
Glycine	500.000
L-Alanine	250.000
L-Arginine hydrochloride	700.000
L-Aspartic acid	300.000
L-Cysteine hydrochloride monohydrate	1.000
L-Cystine dihydrochloride	260.000
L-Glutamic Acid	670.000
L-Histidine hydrochloride monohydrate	200.000
L-Hydroxyproline	100.000

L-Isoleucine	200.000
L-Leucine	600.000
L-Lysine hydrochloride	700.000
L-Methionine	150.000
L-Phenylalanine	250.000
L-Proline	400.000
L-Serine	250.000
L-Threonine	300.000
L-Tryptophan	100.000
L-Tyrosine disodium salt dihydrate	576.600
L-Valine	250.000
VITAMINS	0.500
Ascorbic acid	1.000
Calciferol	5.000
Choline chloride	
D-Biotin	0.100
D-Ca-Pantothenate	0.100
DL-Tocopherol phosphate disodium salt	0.100
Folic acid	0.100
Menadione	0.100
Nicotinamide	0.250
Nicotinic acid	0.250
Pyridoxal hydrochloride	0.250
Pyridoxine hydrochloride	0.250
Retinol Acetate	1.400
Riboflavin	0.100
Thiamine hydrochloride	0.100
i-Inositol	0.500
p-Amino benzoic acid (PABA)	0.500
OTHERS	
Adenine sulphate	100.000
Adeninosine triphosphate	10.000
Adenosine monophosphate	2.000
Cholesterol	2.000
Deoxyribose	5.000
Glucose	10000.000
Glutathione reduced	0.500
Guanine hydrochloride	3.000
Hypoxanthine	3.540
Phenol red sodium salt	150.000
Polysorbate 80	49.000

Ribose	5.000
Thymine	3.000
Uracil	3.000
Xanthine	3.440

Directions:

1. Add 29.3ml of 7.5% sodium bicarbonate solution (TCL013) and 3.42ml of 200mM L-glutamine (TCL012) for 1 litre of 1X medium prior to use.

Material required but not provided:

L-Glutamine solution 200mM (TCL012) Sodium bicarbonate solution 7.5% (TCL013) Tissue culture grade water (TCL010)

Quality Control:

Appearance

Orangish red colored, clear solution

pH 4.20 -4.80

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 :

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