M199 product information

PI-C3030 V1.0

【Product Name】

Name：Medium 199, With Earle's salts and L-Glutamine

Cat. No：C3030-0500、C3030-0100

Specifications：500ml、100ml

【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.

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	
Calcium chloride dihydrate	265.000
Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Sodium acetate anhydrous	50.000
Sodium chloride	6800.000
Sodium phosphate monobasic	122.000
AMINO ACIDS	
Ascorbic acid	0.050
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-Glutamine	100.000
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

VITAMINS	
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	
Adenine sulphate	10.000
Adenosine monophosphate	0.200
Adenosine triphosphate	1.000
Cholesterol	0.200
Deoxyribose	0.500
Ferric nitrate nonahydrate	0.720
Glucose	1000.000
Glutathione reduced	0.050
Guanine hydrochloride	0.300
Hypoxanthine	0.354
Phenol red sodium salt	15.000
Polysorbate 80	4.900
Ribose	0.500
Thymine	0.300
Uracil	0.300
Xanthine	0.344
sodium bicarbonate	2200.000

【Storage and Stability】

Medium 199, With Earle's salts and L-Glutamine should be kept 2-8°C. The product is light -sensitive and therefore should not be left in the light. When stored in the dark under ideal conditions, the product is stable until the expiry date.

As with any other liquid media formulations, deterioration of liquid media may be recognized by any of the following characteristics, among others including:

(a). Color Change;

(b). Presence of clumping/flocculent debris/ granulation/ particulates\ precipitates or sediments ;

(c). Insolubility;

(d). And/or decrease in expected performance parameters.

Any material described above should not be used and therefore discarded.

【Procedure】

1.Take a bottle from the defined storage conditions at 2-8°C and read the label.

2.Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.

3.Using aseptic/sterile technique under a laminar-flow culture hood, work according to established protocols.

4.Antibiotics may be added if desired.

【Quality Contro】

Medium 199, With Earle's salts and L-Glutamine is tested for sterility, pH, osmolality and endotoxin concentrations. In addition, each batch is tested for cell growth using Vero.

【Precaution and Disclaimer】

For research use only, not for clinical diagnosis and treatment.