

Medium 199 with Hank's Salts, with L-Glutamine

General information

The medium is versatile enough to support the growth of a diverse range of cells, including non-transformed cells, and is commonly utilized in the production of vaccines, primary pancreatic explants, and lens tissues. Two variants of Media 199 exist, namely M199-Earle and M199-Hank, which are formulated with Earle's salts and Hank's salts, respectively. The latter is particularly suitable for atmospheric equilibration.

Product specifications

Appearance	Clear red orange solution
CO2 concentration, optimum	5.0%
Storage and shelf life	Store at +2 °C – +8 °C protected from light. Once opened, store at 4 °C and use within 6-8 weeks.
Shipping conditions	Ambient

Formulation

Amino Acids

L-Alanine	25.00
L-Arginine HCl	70.00
L-Aspartic Acid	30.00
L-Cysteine HCl H ₂ O	0.11
L-Cystine 2HCl	26.00
L-Glutamic Acid	66.80
L-Glutamine	100.00
Glycine	50.00
L-Histidine HCl H ₂ O	21.88
L-Hydroxy-L-Proline	10.00
L-Isoleucine	20.00
L-Leucine	60.00
L-Lysine HCl	70.00
L-Methionine	15.00
L-Phenylalanine	25.00
L-Proline	40.00
L-Serine	25.00
L-Threonine	30.00
L-Tryptophan	10.00
L-Tyrosine 2Na 2H ₂ O	57.66
L-Valine	25.00

Vitamins

Ascorbic Acid	0.056
D-Biotin	0.01
Calciferol	0.10
Choline chloride	0.50
D-Calcium Pantothenate	0.01
Folic Acid	0.01
Menadione Sodium Bisulfite	0.016
myo-Inositol	0.05
Nicotinamide	0.025
Nicotinic Acid	0.025
Paraaminobenzoic Acid	0.05
Pyridoxal HCl	0.025
Pyridoxine HCl	0.025
Riboflavin	0.01
Thiamine HCl	0.01
Vitamin A (Acetate)	0.14
(±)-α-Tocopherol Phosphate 2Na	0.01

Inorganic Salts

CaCl ₂ 2H ₂ O	265.00
Fe(NO ₃) ₃ 9 H ₂ O	0.72
MgSO ₄ (anhydrous)	97.67
KCl	400.00
Na Acetate (anhydrous)	50.00
NaHCO ₃	2200.00
NaCl	6800.00
NaH ₂ PO ₄ (anhydrous)	122.00

Other Components

2-Deoxy-D-Ribose	0.50
Adenine Sulfate	10.00
Adenosine 5'-Phosphate	0.24
Adenosine 5'-Triphosphate 2Na	1.00
Cholesterol	0.20
D-Glucose	1000.00
L-Glutathione (reduced)	0.05
Guanine HCl	0.30
Hypoxanthine	0.30

Precautions and disclaimer

This product is for research use only.

Ordering information

Catalogue number	Pack size
LTLM-B30	500 ml

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