

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

General information

Medium 199 (M199) was specifically created to support the growth of primary explants and is ideal for various applications, including vaccine production, virology and other in vitro cell culture experiments.

Product specifications

CO2 concentration, optimum	5.0%
pH	7.0 – 7.5
Osmolality	280 – 340 mOsm/kg
Colour and Appearance	Clear red orange solution
Endotoxin	< 1 EU/ml (< 0.1 ng/ml)
Cell Culture	Tested
Sterility	Tested
Storage	+2 °C to +8 °C protected from light

Formulation

Amino Acids

L-Alanine	50.00
L-Arginine HCl	70.00
L-Aspartic Acid	60.00
L-Cysteine HCl H ₂ O	0.11
L-Cystine 2 HCl	26.00
L-Glutamic Acid	133.60
L-Glutamine	100.00
Glycine	50.00
L-Histidine HCl H ₂ O	21.88
L-Hydroxy-L-Proline	10.00
L-Isoleucine	40.00
L-Leucine	120.00
L-Lysine HCl	70.00
L-Methionine	30.00
L-Phenylalanine	50.00
L-Proline	40.00
L-Serine	50.00
L-Threonine	60.00
L-Tryptophan	20.00
L-Tyrosine 2 Na	57.66
L-Valine	50.00

Vitamins

Ascorbic Acid	0.056
D-Biotin	0.01
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
Vitamin D2 (Ergocalciferol)	0.10
(±)-α-Tocopherol Phosphate 2Na	0.01

Inorganic Salts

Calcium Chloride 2 H ₂ O	265.00
Ferric Nitrate 9 H ₂ O	0.72
Magnesium Sulfate	97.67
Potassium Chloride	400.00
Sodium Bicarbonate	1250.00
Sodium Chloride	6800.00
Sodium Phosphate Monobasic 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	0.30
Hypoxanthine	0.30
Phenol Red Sodium Salt	21.3
D-Ribose	0.50
Sodium Acetate	50.00
Thymine	0.30
Tween® 80	20.00
Uracil	0.30
Xanthine Na	0.34

Precautions and disclaimer

This product is for research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Ordering information

Catalogue number	Pack size
LTLM-B16	500 ml

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