

Product Name

Name: Medium-199, with Hank's Salts Base and L-Glutamine

Cat. No.: C3031-0500

Size: 500 mL

Product Description

M-199 medium was developed by Morgan, Morton, Parker, and colleagues in 1950 as the first nutrient defined medium. M-199 medium was originally designed for the culture of primary chick embryo fibroblasts, and it is now used in vaccine production, virology study, and many other cell culture applications. There are two types of M-199 medium: Earle's salt solution and Hank's salt solution.

M-199 medium supplemented with serum can be used to culture a variety of species of cells. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific to different cell lines.

Composition

Ingredients	mg/L
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Inorganic salts

Calcium chloride	140.000
Iron nitrate	0.720
Potassium chloride	400.000
Potassium phosphate	60.000
Magnesium sulfate	97.670
Sodium chloride	8000.000
Sodium bicarbonate	350.000

Sodium dihydrogen phosphate	90.000
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Amino acids

L-alanine	25.000
L-arginine hydrochloride	70.000
L-asparagine	30.000
L-cysteine hydrochloride	0.110
L-cystine dihydrochloride	20.000
L-glutamic acid	75.000
L-glutamine	100.000
Glycine	50.000
L-histidine hydrochloride	21.880
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	I-inositol	0.050
L-threonine	30.000	P-aminobenzoic acid	0.050
L-tryptophan	10.000	Others	
L-tyrosine	40.000	Adenine sulfate	10.000
L-valine	25.000	5' -adenosine triphosphate disodium salt	1.000
Vitamins		Adenine nucleotide	0.200
Ascorbic acid	0.050	Cholesterol	0.200
Calciferol	0.100	Deoxyribose	0.500
Choline chloride	0.500	Glucose	1000.000
D-Biotin	0.010	Reduced glutathione	0.050
D-calcium-panhydrochloric acid	0.010	Guanine hydrochloride	0.030
Tocopherol phosphate	0.010	Hypoxanthine	0.400
Nicotinic acid	0.025	Phenol red sodium salt	20.000
Pyridoxal hydrochloride	0.025	Ribose	0.500
Pyridoxine hydrochloride	0.025	Sodium acetate	50.000
Vitamin A	0.100	Thymine	0.300
Riboflavin	0.010	Tween-80	20.000
Thiamine hydrochloride	0.010	Uracil	0.300
Folic acid	0.010	Xanthine	0.340
Vitamin K3	0.010		
Nicotinic acid	0.025		

Procedure

- Take a bottle from the refrigerator at 2 - 8°C and read the label.
- Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.



- Pipette out appropriate volume using an aseptic/sterile technique under a laminar-flow culture hood.
- Add antibiotics or other nutrients if desired.

Storage and Stability

The product should be kept at 2 - 8° C.

The product is light-sensitive and therefore should be protected from light.

Shelf life: 12 months from the date of manufacture..

Precautions

- Do not use it if the packaging is broken or dripping.
- Avoid contamination during operation.
- Rinse immediately with tap water, if the solution contacts the skin and mucous membrane.
- Use before expiry date .

Quality Control

Medium-199, with Hank's Salts Base and L-Glutamine is tested for sterility, pH, osmolality, and endotoxin concentration. In addition, each batch is tested for cell growth performance.

Manufacturer

Shanghai XP Biomed Ltd.

Issue Date

Mar. 2026

Precaution and Disclaimer

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

