C3031 M199 product information

PI-C3031 V1.0

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

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.