

Product Name

Name: Medium 199, 10X Conc., with EBSS, w/out L-Glutamine, Sodium Bicarbonate

Cat. No.: C3035-0500

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.

L-Alanine	250.000
L-Arginine hydrochloride	700.000
L-Aspartic acid	300.000
L-Cysteine hydrochloride monohydrate	260.000
L-Cystine dihydrochloride	1.100
L-Glutamic acid	668.000
L-Histidine hydrochloride monohydrate	218.800
L-Hydroxyproline	100.000
L-Isoleucine	200.000
L-Leucine	600.000
L-Lysine hydrochloride	700.000
L-Methionine	150.000
L-Phenylalanine	250.000
L-Proline	400.000
L-Serine	250.000
L-Threonine	300.000
L-Tryptophan	100.000

Composition:

Ingredients mg/L

Inorganic salts

Ferric nitrate ($\text{Fe}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$) 7.200

Magnesium sulphate anhydrous 976.700

Potassium chloride (KCl) 4000.000

Sodium chloride (NaCl) 68000.000

Sodium phosphate monobasic 1220.000

Amino acids

Glycine 500.000



L-Tyrosine disodium salt	576.600	Adenine sulphate	100.000
L-Valine	250.000	Adenosine monophosphate	2.385
Vitamins		Adenosine 5'-triphosphate, disodium salt	10.000
Calciferol (Vitamin D2)	1.000	Cholesterol	2.000
Ascorbic acid	0.500	Deoxyribose	5.000
Choline chloride	5.000	Glucose	10000.00
D-Biotin	0.100	Glutathione reduced	0.500
D-Ca-Pantothenate	0.100	Guanine hydrochloride	3.000
DL-Tocopherol phosphate disodium salt	0.100	Hypoxanthine	3.000
Folic acid	0.100	Tween 80	200.000
Menadione (Vitamin K3)	0.160	Ribose	5.000
Nicotinamide	0.250	Thymine	3.000
Nicotinic acid	0.250	Uracil	3.000
Pyridoxal hydrochloride	0.250	Xanthine	3.440
Pyridoxine hydrochloride	0.250	Phenol Red	213.000
Retinol Acetate (Vitamin A)	1.400	Sodium acetate anhydrous	500.000
Riboflavin	0.100		
Thiamine hydrochloride	0.100		
i-Inositol	0.500		
p-Amino benzoic acid (PABA)	0.500		

Others
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.
- Dilute 10X concentrate to 1X before use.



- 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, 10X Conc., with EBSS, w/out L-Glutamine, Sodium Bicarbonate is tested for sterility, pH, osmolality, and endotoxin concentration. In addition, each batch is tested for cell growth performance.

Manufacturer

Shanghai Dr. Cell Co., Ltd.

Issue Date

Feb. 2026

Precaution and Disclaimer

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

