CMRL 1066 Medium

With L-Glutamine & Sodium Bicarbonate

Cat. No. CPC001 | Size: 500 ML / 1L

1. Product Description

CMRL Media have a composition similar to Medium 199, containing nucleic acid derivatives and coenzymes. CMRL 1066 Medium is a chemically defined medium developed for the long-term culture of mouse L cells under protein-free conditions and can also be used as a serum-free medium for culturing various types of cells. This product contains 100 mg/L (0.68 mM) of L-glutamine, so it should be used considering the characteristics of the cells being cultured.

2. Composition

Amino Acids	mg/L
L-Alanine	25.00
L-Arginine	57.87
L-Aspartic Acid	30.00
L-Cysteine-HCl-H_2O	260.00
L-Cystine-2HCl	20.00
L-Glutamic Acid	75.00
L-Glutamine	100.00
Glycine	50.00
L-Histidine-HCl-H_2O	20.00
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_2O	40.00
L-Valine	25.00
Trans-4-Hydroxy-L-Proline	10.00

Vitamins & Others	mg/L
Ascorbic Acid, Na	50.00
D-Biotin	0.01
D-Ca Pantothenate	0.01
Choline Chloride	0.50
Folic Acid	0.01
i-Inositol	0.05
Niacin	0.025
Niacinamide	0.025
Para-Aminobenzoic Acid	0.05
Pyridoxal-HCl	0.025
Pyridoxine HCl	0.025
Riboflavin	0.01
Thiamine-HCl	0.01
2'-Deoxyadenosine	10.00
2'-Deoxycytidine HCl	10.00
2'-Deoxyguanosine	10.00
5-Methyldeoxycytidine	0.10
Cholesterol	0.20
Co-carboxylase	1.00
Coenzyme A, Na	2.50

Others & Salts	mg/L
D-Glucose	1000.00
Glucuronic Acid, Na	3.88
FAD, Na	0.106
Glutathione (reduced)	0.05
Phenol Red, Na	21.24
Sodium Acetate	50.00
Thymidine	10.00
Tween 80	5.00
Uridine-5-Triphosphate, Na	1.00
β-NAD	7.00
β-NADP, Na	1.00
Inorganic Salts	**mg/L**
$CaCl_2 \cdot 2H_2O$	265.00
KCl	400.00
$MgSO_4$	97.69
NaCl	6800.00
$NaHCO_3$	2200.00
NaH_2PO_4 (Anhydrous)	122.00

3. Product Quality Specifications

Appearance	pH	Osmolality	Endotoxin	Sterility
Red clear liquid	pH 7.3 ± 0.3	320 ± 20 mOsm/kg H_2O	<1 EU/mL	Sterile

4. Storage Conditions and Precautions

Store at refrigerated temperatures (2~8°C) protected from direct light. The expiration date is indicated on the product label; do not use expired products. Product degradation may appear as precipitates, floating particles, turbidity, or color change; discard if any are observed. Storing against the inner walls of a refrigerator where temperatures may approach 0°C can cause degradation due to ice crystal formation. The addition of extra substances may also cause degradation.

5. Usage Instructions and Precautions

This product is a sterile solution. Open the cap only in a sterile environment (e.g., a clean bench) using aseptic technique. It is recommended to use the entire contents after opening; otherwise, aliquot into a suitable sterile container and store refrigerated (2~8°C).