

### Technical Information

#### CMRL 1066 Medium

With L-Glutamine and Sodium bicarbonate 1X Liquid Cell Culture Medium

#### Product Code: AL1110A

**Application:**—CMRL media are based on the composition of Medium 199. Nucleic acid derivatives, coenzymes omitted in H597 modification were retained in CMRL 1066. CMRL 1066 is a chemically defined medium formulated for long term cultivation of mouse L cells in the absence of protein supplement. Although originally designed for use in serum free conditions, this medium supports growth of a variety of cell lines in the presence of serum.

AL1110A is CMRL 1066 Medium with L-glutamine and sodium bicarbonate. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

#### Composition\*\*

Ingredients	mg/Litre
<b>INORGANIC SALTS</b>	
Calcium chloride dihydrate	265.000
Magnesium sulphate anhydrous	97.690
Potassium chloride	400.000
Sodium acetate anhydrous	50.000
Sodium bicarbonate	2750.000
Sodium chloride	6800.000
Sodium dihydrogen phosphate anhydrous	122.000
<b>AMINO ACIDS</b>	
Glycine	50.000
L-Alanine	25.000
L-Arginine	57.870
L-Aspartic acid	30.000
L-Cysteine hydrochloride monohydrate	260.000
L-Cystine	20.000
L-Glutamic acid	75.000
L-Glutamine	100.000
L-Histidine hydrochloride monohydrate	20.000
L-Isoleucine	20.000
L-Leucine	60.000
L-Lysine hydrochloride	70.000
L-Methionin	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
Trans-4-Hydroxy-L-Proline	10.000

### VITAMINS

D-Biotin	0.010
Folic acid	0.010
L-Ascorbic acid sodium salt	50.000
Niacinamide	0.025
Nicotinic acid	0.025
Pyridoxal hydrochloride	0.025
Pyridoxine hydrochloride	0.025
Riboflavin	0.010
Thiamine hydrochloride	0.010

### OTHERS

2' Deoxyadenosine	10.000
2' Deoxycytidine hydrochloride	11.600
2' Deoxyguanosine	10.000
5-Methyldeoxycytidine	0.100
Beta NAD	7.000
Beta NADP sodium salt	10.000
Cholesterol	0.200
Choline chloride	0.500
Coccarboxylase	1.000
Coenzyme A sodium salt	2.500
D-Ca-Pantothenate	0.010
D-Glucose	1000.000
D-Glucuronic acid sodium salt	3.880
FAD Disodium Salt	0.106
Glutathione	10.000
Phenol red sodium salt	21.240
Thymidine	10.000
Tween 80	5.000
Uridine-5-Triphosphate sodium salt	1.000
myo-Inositol	0.050
p-Amino benzoic acid (PABA)	0.050

## Quality Control

### Appearance

Orangish red colored, clear solution.

### pH

7.00 -7.60

### Osmolality in mOsm/Kg H<sub>2</sub>O

300.00 -340.00

### Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

### Cultural Response

The growth promotion capacity of the medium is assessed qualitatively by analyzing the cells for the morphology and quantitatively by estimating the cell counts and comparing it with a control medium through minimum three subcultures.

### Endotoxin Content

NMT 5EU/ml

### Storage and Shelf Life

Store at 2-8°C away from bright light. Shelf life is 12 months. Use before expiry date given on the product label.

### Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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