



Product Information

CMRL-1066 Medium

CMRL-1066 is a chemically defined medium developed in the late 1950's at the Connaught Medical Research Laboratories. A less complex and extensively modified version of Medium-199, CMRL-1066 was designed initially for use with mouse L-cells in unsupplemented culture. Although developed for use in serum-free culture, CMRL-1066 can be supplemented with serum and used to support the growth of many cell types.

COMPONENT	C 0422 g/L	COMPONENT	C 0422 g/L
INORGANIC SALTS			
CaCl ₂	0.2	β-NAD	0.007
MgSO ₄ (anhyd)	0.09769	β-NADP•Na	0.001
KCl	0.4	Niacinamide	0.000025
Na•Acetate (anhyd)	0.05	Nicotinic Acid	0.000025
NaCl	6.8	D-Pantothenic Acid•½Ca	0.00001
NaH ₂ PO ₄ (anhyd)	0.122	Pyridoxal•HCl	0.000025
AMINO ACIDS			
L-Alanine	0.025	Pyridoxine•HCl	0.000025
L-Arginine	0.05787	Riboflavin	0.00001
L-Aspartic Acid	0.03	Thiamine•HCl	0.00001
L-Cysteine•HCl•H ₂ O	0.26	OTHER	
L-Cystine	0.02	Cholesterol	0.0002
L-Glutamic Acid	0.075	Coenzyme A•Na	0.0025
L-Glutamine	0.1	D-Glucose	1.0
Glycine	0.05	D-Glucuronic Acid•Na	0.00388
L-Histidine•HCl•H ₂ O	0.02	Glutathione	0.01
trans-4-Hydroxy-L-Proline	0.01	Phenol Red•Na	0.02124
L-Isoleucine	0.02	Thymidine	0.01
L-Leucine	0.06	Tween 80	0.005
L-Lysine•HCl	0.07	Uridine-5-Triphosphate•Na	0.001
L-Methionine	0.015	ADD	
L-Phenylalanine	0.025	NaHCO ₃	2.2
L-Proline	0.04	Grams of powder required to prepare 1 L	
L-Serine	0.025		9.8
L-Threonine	0.03	REFERENCES	
L-Tryptophan	0.01	1. Parker R. C. et al. (1957). Altered Cell Strains In Continuous Culture: A General Survey In: Special Publications of the New York Academy of Sciences. Publisher: N.Y. Acad. of Sci. Ed.: Whitelock O. 5, 303-313.	
L-Tyrosine	0.04	2. Healy, G. M., and Parker, R.C. (1966). An Improved Chemically Defined Basal Medium (CMRL-1415) For Newly Explanted Mouse Embryo Cells, Journal of Cell Biology 30, 531-538.	
L-Valine	0.025	3. Methods of Tissue Culture, Third Edition. Harper and Row Publishers Inc. New York Ed. R. C. Parker, 62-80.	
VITAMINS			
PABA	0.00005		
L-Ascorbic Acid•Na	0.05		
D-Biotin	0.00001		
Choline Chloride	0.0005		
Coccarboxylase	0.001		
2'-Deoxyadenosine	0.01		
2'-Deoxyguanosine	0.01		
2'-Deoxycytidine•HCl	0.0116		
Flavin Adenine Dinucleotide•2Na	0.000106		
Folic Acid	0.00001		
myo-Inositol	0.00005		
5-Methyldeoxycytidine	0.0001		