

DMEM: Ham's F12**Ready-to-use****Order Number: 820405****500 ml**

Concentration	mg/L		mg/L
<u>Inorganic salts</u>		<u>Vitamins</u>	
CaCl ₂ · H ₂ O	154.45	Choline chloride	8.98
KCl	311.8	Folic acid	2.66
Mg SO ₄	84.95	I-Inositol	12.51
NaCl	7000	Vitamin B1 · HCl (Thiamine Monohydrochloride)	2.17
NaHCO ₃	1200	Vitamin B2 (Riboflavin)	0.22
NaH ₂ PO ₄ · H ₂ O	62.5	Vitamin B5 (D-Calcium Pantothenate)	2.12
Fe(NO ₃) ₃ · 9H ₂ O	0.05	Nicotinamide	2.02
FeSO ₄ · 7H ₂ O	0.42	Vitamin B6 · HCl (Pyridoxine Monohydrochloride)	2.03
CuSO ₄	0.001	Vitamin B12	0.68
Na ₂ HPO ₄	71	Biotin	0.004
ZnSO ₄ · 7H ₂ O	0.43		
<u>Amino acids</u>		<u>Other components</u>	
L-Alanine	4.45	D(+)-Glucose	3151
L-Arginine · HCl	147.35	Hypoxanthine	2.04
L-Asparagine · H ₂ O	7.50	DL-Thioctic (lipoic) acid	0.105
L-Aspartic acid	6.65	Linoleic acid	0.04
L-Cysteine · H ₂ O · HCl	17.56	Phenol Red	8.10
L-Cystine · 2HCl	31.29	L-Glutamine	365.0
L-Glutamic acid	7.35	Putrescine · 2HCl	0.081
Glycine	18.75	Sodium pyruvate	110.0
L-Histidine · HCl · H ₂ O	31.48	Thymidine	0.36
L-Isoleucine	54.37	HEPES	3574.5
L-Leucine	58.96	Fetal Bovine Serum	5%
L-Lysine · HCl	91.37	INSULIN was added	5µg/ml
L-Methionine	17.24		
L-Phenylalanine	35.48		
L-Proline	17.27	Note:	
L-Serine	26.25	In case FBS was added, the	
L-Threonine	53.55	concentrations given	
L-Tryptophane	9.02	above need to be reduced by 5%.	
L-Tyrosine 2Na 2H ₂ O	55.81		
L-Valine	52.66		

Maintenance

Immediately after delivery, store the medium at 4°C to 8° C in the dark. Do not heat the medium over 37°C or use uncontrollable sources of heat (e.g. microwave appliances). If only a part of the medium is to be used, remove this amount from the bottle and warm it up. Do not freeze the medium. This can result in high salt concentrations by freezing out pure water which will cause irreversible damage.

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES.