

## DMEM/Ham's F-12 50/50 Mix Formulation

Cat. No.	10-090 1x, Liquid	10-092 1x, Liquid	15-090 1x, Liquid	16-405 1x, Liquid	90-090 Powder	90-091 Powder
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
<b>Inorganic Salts</b>						
CaCl <sub>2</sub> (anhydrous)	116.65	116.65	116.65	116.65	116.65	116.65
CaSO <sub>4</sub> (anhydrous)	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Fe(NO <sub>3</sub> ) <sub>3</sub> • 9H <sub>2</sub> O	0.05	0.05	0.05	0.05	0.05	0.05
FeSO <sub>4</sub> • 7H <sub>2</sub> O	0.417	0.417	0.417	0.417	0.417	0.417
KCl	311.80	311.80	311.80	311.80	311.80	311.80
MgSO <sub>4</sub> (anhydrous)	84.95	84.95	84.95	84.95	84.95	84.95
NaCl	7000.00	7000.00	7000.00	7000.00	7000.00	7000.00
NaH <sub>2</sub> PO <sub>4</sub> • H <sub>2</sub> O	62.50	62.50	62.50	62.50	62.50	62.50
Na <sub>2</sub> HPO <sub>4</sub> (anhydrous)	71.00	71.00	71.00	71.00	71.00	71.00
NaHCO <sub>3</sub>	2488.00	2488.00	2488.00	2488.00	—	—
ZnSO <sub>4</sub> • 7H <sub>2</sub> O	0.4315	0.4315	0.4315	0.4315	0.4315	0.4315
<b>Amino Acids</b>						
L-Alanine	4.45	4.45	4.45	4.45	4.45	4.45
L-Arginine • HCl	147.50	147.50	147.50	147.50	147.50	147.50
L-Asparagine • H <sub>2</sub> O	7.50	7.50	7.50	7.50	7.50	7.50
L-Aspartic acid	6.65	6.65	6.65	6.65	6.65	6.65
L-Cysteine • HCl • H <sub>2</sub> O	17.56	17.56	17.56	17.56	17.56	17.56
L-Cystine • 2HCl	31.285	31.285	31.285	31.285	31.285	31.285
L-Glutamic acid	7.35	7.35	7.35	7.35	7.35	7.35
L-Glutamine	365.10	365.10	—	365.10	—	—
Glycine	18.75	18.75	18.75	18.75	18.75	18.75
L-Histidine • HCl • H <sub>2</sub> O	31.48	31.48	31.48	31.48	31.48	31.48
L-Isoleucine	54.37	54.37	54.37	54.37	54.37	54.37
L-Leucine	58.95	58.95	58.95	58.95	58.95	58.95
L-Lysine • HCl	91.35	91.35	91.35	91.35	91.35	91.35
L-Methionine	17.24	17.24	17.24	17.24	17.24	17.24
L-Phenylalanine	35.48	35.48	35.48	35.48	35.48	35.48
L-Proline	17.25	17.25	17.25	17.25	17.25	17.25
L-Serine	26.25	26.25	26.25	26.25	26.25	26.25
L-Threonine	53.55	53.55	53.55	53.55	53.55	53.55
L-Tryptophan	9.02	9.02	9.02	9.02	9.02	9.02
L-Tyrosine • 2Na • H <sub>2</sub> O	55.815	55.815	55.815	55.815	55.815	55.815
L-Valine	52.85	52.85	52.85	52.85	52.85	52.85
<b>Vitamins</b>						
Biotin	0.00365	0.00365	0.00365	0.00365	0.00365	0.00365
D-Calcium pantothenate	2.24	2.24	2.24	2.24	2.24	2.24
Choline Chloride	8.98	8.98	8.98	8.98	8.98	8.98
Folic Acid	2.65	2.65	2.65	2.65	2.65	2.65
i-Inositol	12.61	12.61	12.61	12.61	12.61	12.61
Nicotinamide	2.0185	2.0185	2.0185	2.0185	2.0185	2.0185
Pyridoxine • HCl	2.031	2.031	2.031	2.031	2.031	2.031
Riboflavin	0.219	0.219	0.219	0.219	0.219	0.219
Thiamine • HCl	2.17	2.17	2.17	2.17	2.17	2.17
Vitamin B12	0.68	0.68	0.68	0.68	0.68	0.68

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	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
<b>Other</b>						
D-Glucose	3151.00	3151.00	3151.00	3151.00	3151.00	3151.00
HEPES	--	3574.80	--	--	--	--
Hypoxanthine, Na	2.385	2.385	2.385	2.385	2.385	2.385
DL-Thiobctic Acid	0.105	0.105	0.105	0.105	0.105	0.105
Methyl linoleate	0.044	0.044	0.044	0.044	0.044	0.044
Phenol red, Na	8.10	8.10	8.10	--	--	8.10
Putrescine • 2HCl	0.08	0.08	0.08	0.08	0.08	0.08
Sodium pyruvate	110.00	110.00	110.00	110.00	110.00	110.00
Thymidine	0.365	0.365	0.365	0.365	0.365	0.365
<b>Add</b>						
NaHCO <sub>3</sub> -Powder (g/L) -7.5% Solution (mL/L)	--	--	--	--	2.438 32.50	2.438 32.50
L-Glutamine -Powder (mg/L) -200 mM Solution (mL/L)	--	--	365.10 12.50	--	365.10 12.50	365.10 12.50
<b>Specifications</b>						
pH (before buffer)	--	--	--	--	6.5 ± 0.2	6.5 ± 0.2
pH (after buffer)	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.8 ± 0.2	7.8 ± 0.2
Osmolality (mOsm/kg)	310 ± 30	335 ± 30	310 ± 30	310 ± 30	315 ± 15	315 ± 15
Grams of powder required to prepare 1L (1x Solution)	--	--	--	--	11.69	11.70

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Corning Incorporated, One Riverfront Plaza, Corning, NY 14831-0001

Mediatech, Inc.  
A Corning Subsidiary  
9345 Discovery Blvd.  
Manassas, VA 20109  
t 800.235.5476  
f 703.471.0363

[www.cellgro.com](http://www.cellgro.com)