

# CORNING

## Dulbecco's Modification of Eagle's Medium (DMEM) /Ham's F-12 50/50 Mix Formulation

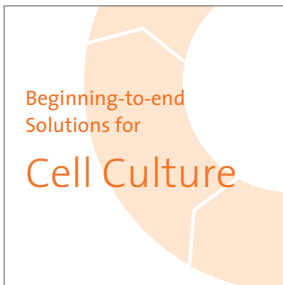
Cat. No.	10-090	10-092	10-103	16-405	90-090	90-091
Description	Liquid, 1x	Liquid, 1x	Liquid, 1x	Liquid, 1x	Powder	Powder
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

Components						
<i>Inorganic Salts</i>						
CaCl <sub>2</sub> (anhydrous)	116.65	116.65	116.65	116.65	116.65	116.65
FeSO <sub>4</sub> • 7H <sub>2</sub> O	0.417	0.417	0.417	0.417	0.417	0.417
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
KCl	311.8	311.8	311.8	311.8	311.8	311.8
CuSO <sub>4</sub> (anhydrous)	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
MgSO <sub>4</sub> (anhydrous)	84.95	84.95	84.95	84.95	84.95	84.95
NaCl	7,000	7,000	7,000	7,000	7,000	7,000
NaH <sub>2</sub> PO <sub>4</sub> • H <sub>2</sub> O	62.5	62.5	62.5	62.5	62.5	62.5
Na <sub>2</sub> HPO <sub>4</sub> (anhydrous)	71	71	71	71	71	71
NaHCO <sub>3</sub>	2,438	2,438	2,438	2,438	--	--
ZnSO <sub>4</sub> • 7H <sub>2</sub> O	0.4315	0.4315	0.4315	0.4315	0.4315	0.4315
<i>Amino Acids</i>						
L-Alanine	4.45	4.45	4.45	4.45	4.45	4.45
L-Arginine • HCl	147.5	147.5	147.5	147.5	147.5	147.5
L-Asparagine • H <sub>2</sub> O	7.5	7.5	7.5	7.5	7.5	7.5
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-Alanyl-L-glutamine	--	--	543	--	--	--
L-glutamine	365.1	365.1	--	365.1	--	--
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 • 2H <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
<i>Vitamins</i>						
Biotin	0.00365	0.00365	0.00365	0.00365	0.00365	0.00365
D-Ca-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>i</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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<i>Other</i>						
Dextrose	3,151	3,151	3,151	3,151	3,151	3,151
Hypoxanthine, Sodium	2.385	2.385	2.385	2.385	2.385	2.385
DL-Thioctic (lipoic) acid	0.105	0.105	0.105	0.105	0.105	0.105
Methyl Lineoleate	0.044	0.044	0.044	0.044	0.044	0.044
Phenol Red, Sodium	8.1	8.1	8.1	--	--	8.1
Putrescine*2HCl	0.08	0.08	0.08	0.08	0.08	0.08
Sodium Pyruvate	110	110	110	110	110	110
Thymidine	0.365	0.365	0.365	0.365	0.365	0.365
HEPES	--	3574.8	--	--	--	--
<i>Add</i>						
NaHCO <sub>3</sub> Powder (g/L)	--	--	--	--	2.438	2.438
7.5% Solution (mL/L)	--	--	--	--	32.50	32.50
L-glutamine Powder (mg/L)	--	--	--	--	365.10	365.10
200 mM Solution (mL/L)	--	--	--	--	12.50	12.50

"--" indicates not present



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