CORNING

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						
Inorganic Salts						
$CaCl_2$ (anhydrous)	116.65	116.65	116.65	116.65	116.65	116.65
$FeSO_4 \cdot 7H_2O$	0.417	0.417	0.417	0.417	0.417	0.417
$Fe(NO_3)_3 \cdot 9H_2O$	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
$CuSO_4$ (anhydrous)	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
$MgSO_4$ (anhydrous)	84.95	84.95	84.95	84.95	84.95	84.95
NaCl	7000	7000	7000	7000	7000	7000
$NaH_2PO_4 \cdot H_2O$	62.5	62.5	62.5	62.5	62.5	62.5
Na_2HPO_4 (anhydrous)	71	71	71	71	71	71
$NaHCO_3$	2438	2438	2438	2438	--	--
$ZnSO_4 \cdot 7H_2O$	0.4315	0.4315	0.4315	0.4315	0.4315	0.4315
Amino Acids						
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_2O	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_2O	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	--	365.1
Glycine	18.75	18.75	18.75	18.75	18.75	18.75
L-Histidine • HCl • H_2O	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 • $2H_2O$	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
Vitamins						
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-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
Other						
Dextrose	3151	3151	3151	3151	3151	3151
Hypoxanthine, Sodium	2.385	2.385	2.385	2.385	2.385	2.385

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Description	Liquid, 1x	Liquid, 1x	Liquid, 1x	Liquid, 1x	Powder	Powder
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
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	--	--	--	--
Add						
$NaHCO_3$						
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

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