

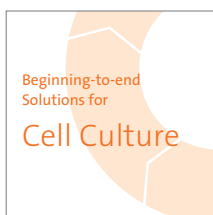
CORNING

Minimum Essential Medium (MEM) Formulation

Cat. No.	50-004	50-010	50-019	50-011	51-010	90-009	10-009	10-010	15-010	15-015	17-305
Description	Powder	Powder	Powder	Powder	Powder	Powder	Liquid, 1x	Liquid, 1x	Liquid, 1x	Liquid, 1x	Liquid, 1x
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Components											
<i>Inorganic Salts</i>											
CaCl ₂ (anhydrous)	200.00	200.00	140.00	200.00	200.00	200.00	200.00	200.00	200.00	--	200.00
Fe(NO ₃) ₃ • 9H ₂ O	0.10	--	--	--	--	--	--	--	--	--	--
KCl	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00
KH ₂ PO ₄	--	--	60.00	--	--	--	--	--	--	--	--
MgSO ₄ (anhydrous)	97.67	97.70	97.67	97.70	97.00	97.70	97.70	97.70	97.70	--	97.70
NaCl	6400	6800	8000	6800	6800	6800	6800.00	6800.00	6800.00	6800.00	6800.00
NaH ₂ PO ₄ • H ₂ O	124.00	140.00	47.88	140.00	140.00	140.00	140.00	140.00	140.00	1217.00	140.00
Na succinate • 6H ₂ O	--	--	--	--	100.00	--	--	--	--	--	--
NaHCO ₃	--	--	--	--	--	--	1500.00	2200.00	2200.00	2200.00	2200.00
<i>Amino Acids</i>											
L-Alanine	--	--	--	8.90	--	--	8.90	--	--	--	--
L-Arginine • HCl	42.00	126.40	126.00	126.40	126.40	126.40	126.40	126.40	126.40	126.40	126.40
L-Asparagine • H ₂ O	--	--	--	15.00	--	--	15.00	--	--	--	--
L-Aspartic acid	--	--	--	13.30	--	--	13.30	--	--	--	--
L-Cystine • 2HCl	31.28	31.20	31.39	31.20	31.10	31.20	31.20	31.20	31.20	31.20	31.20
L-Glutamic acid	--	--	--	14.70	--	--	14.70	--	--	--	--
L-Glutamine	292.00	292.00	292.00	292.00	--	--	292.00	292.00	--	--	--
Glycine	--	--	--	7.50	--	--	7.50	--	--	--	--
L-Histidine • HCl • H ₂ O	21.00	41.90	42.00	41.90	41.90	41.90	41.90	41.90	41.90	41.90	41.90
L-Isoleucine	52.40	52.50	52.00	52.50	52.50	52.50	52.50	52.50	52.50	52.50	52.50
L-Leucine	52.40	52.50	52.00	52.50	52.50	52.50	52.50	52.50	52.50	52.50	52.50
L-Lysine • HCl	73.10	72.50	72.50	72.50	73.06	72.50	72.50	72.50	72.50	72.50	72.50
L-Methionine	15.00	15.00	15.00	15.00	14.90	15.00	15.00	15.00	15.00	15.00	15.00
L-Phenylalanine	33.00	32.50	32.00	32.50	33.02	32.50	32.50	32.50	32.50	32.50	32.50
L-Proline	--	--	--	11.50	--	--	11.50	--	--	--	--
L-Serine	--	--	--	10.50	--	--	10.50	--	--	--	--
L-Threonine	47.60	47.60	48.00	47.60	47.64	47.60	47.60	47.60	47.60	47.60	47.60
L-Tryptophan	8.00	10.00	10.00	10.00	10.20	10.00	10.00	10.00	10.00	10.00	10.00
L-Tyrosine • 2Na • 2H ₂ O	52.19	51.90	51.90	51.90	--	51.90	51.90	51.90	51.90	51.90	51.90
L-Tyrosine, free base	--	--	--	--	36.00	--	--	--	--	--	--
L-Valine	46.80	46.80	46.00	46.80	46.90	46.80	46.80	46.80	46.80	46.80	46.80
<i>Vitamins</i>											
Choline bitartrate	--	--	--	--	1.80	--	--	--	--	--	--
D-Calcium pantothenate	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Choline chloride	2.00	1.00	1.00	1.00	--	1.00	1.00	1.00	1.00	1.00	1.00
Folic acid	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<i>i</i> -Inositol	3.60	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Nicotinamide	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Pyridoxine • HCl	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Riboflavin	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Thiamine • HCl	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<i>Other</i>											
D-Glucose	4500	1000	1000	1000	1000	1000	1000	1000.00	1000.00	1000.00	1000.00
Phenol red • Na	15.00	10.00	10.00	10.00	6.00	--	10.00	10.00	10.00	10.00	--
Succinic acid	--	--	--	--	75.00	--	--	--	--	--	--
Sodium Pyruvate	--	--	--	--	--	--	110.00	--	--	--	--

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Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

<i>Add</i>											
NaHCO ₃ Powder (g/L)	2.75	2.20	--	2.20	2.20	2.20	--	--	--	--	--
7.5% Solution (mL/L)	33.40	26.70	--	26.70	26.70	26.70	--	--	--	--	--
L-Glutamine Powder (mg/L)	--	--	--	--	292.00	292.00	--	--	--	--	--
200 mM Solution (mL/L)	--	--	--	--	10.00	10.00	--	--	--	--	--



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Mediatech, Inc.
 A Corning Subsidiary
 9345 Discovery Boulevard
 Manassas, VA 20109
 t 800.235.5476
 t 703.471.5955
 f 703.467.9851
www.cellgro.com

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