

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											
Inorganic Salts											
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
Amino Acids											
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	---	---	---	13.90	---	---	13.90	---	---	---	---
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
Vitamins											
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
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
Other											
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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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
Add											
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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