

MEM medium ingredient formula (mg/L)

Ingredient \ Cat. No.	EP-CM-P0139	EP-CM-L0139	EP-CM-L0141	EP-CM-L0143	EP-CM-L0147	EP-CM-L0153
Inorganic salt						
CaCl ₂ (Anhydrous)	200	200	200	200	200	200
MgSO ₄ (Anhydrous)	97.67	97.67	97.67	97.67	97.67	97.67
KCl	400	400	400	400	400	400
NaHCO ₃	–	2200	2200	2200	2200	2200
NaCl	6800	6800	6800	6350	6800	6800
NaH ₂ PO ₄ (Anhydrous)	122	122	122	122	122	122
Amino acid						
L-Alanyl-L-glutamine	–	–	–	–	–	–
L-Arginine monohydrochloride	126	126	126	126	126	126
L-Cystine dihydrochloride	31.3	31.3	31.3	31.3	31.3	31.3
L-Glutamine	292	292	–	292	292	292
L-Histidine hydrochloride monohydrate	42	42	42	42	42	42
L-Isoleucine	52	52	52	52	52	52
L-Leucine	52	52	52	52	52	52
L-Lysine monohydrochloride	72.5	72.5	72.5	72.5	72.5	72.5
L-Methionine	15	15	15	15	15	15
L-Phenylalanine	32	32	32	32	32	32
L-Threonine	48	48	48	48	48	48
L-Tryptophan	10	10	10	10	10	10
L-Tyrosine disodium salt dihydrate	51.9	51.9	51.9	51.9	51.9	51.9
L-Valine	46	46	46	46	46	46
Glycine	7.5	7.5	7.5	7.5	7.5	–
L-Alanine	8.9	8.9	8.9	8.9	8.9	–
L -Asparagine Monohydrate	15	15	15	15	15	–
L-Aspartic acid	13.3	13.3	13.3	13.3	13.3	–
L-Glutamic acid	14.7	14.7	14.7	14.7	14.7	–
L-Proline	11.5	11.5	11.5	11.5	11.5	–
L-Serine	10.5	10.5	10.5	10.5	10.5	–
Vitamin						
Choline chloride	1	1	1	1	1	1
D-Calcium pantothenate	1	1	1	1	1	1

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Folic acid	1	1	1	1	1	1
Niacinamide	1	1	1	1	1	1
Pyridoxal hydrochloride	1	1	1	1	1	1
Riboflavin	0.1	0.1	0.1	0.1	0.1	0.1
Thiamine hydrochlorid	1	1	1	1	1	1
Meso-inositol	2	2	2	2	2	2
Others						
D-Glucose	1000	1000	1000	1000	1000	1000
HEPES	–	–	–	5958	–	–
Phenol red	10	10	10	10	–	10
Penicillin G sodium salt	–	–	–	–	–	–
Streptomycin sulfate	–	–	–	–	–	–

Ingredient \ Cat. No.	EP-CM-L0155	EP-CM-L0157	EP-CM-L0161	EP-CM-L0163	EP-CM-L0167
Inorganic salt					
CaCl ₂ (Anhydrous)	200	200	200	200	200
MgSO ₄ (Anhydrous)	97.67	97.67	97.67	97.67	97.67
KCl	400	400	400	400	400
NaHCO ₃	2200	2200	2200	2200	2200
NaCl	6800	6350	6800	6350	6800
NaH ₂ PO ₄ (Anhydrous)	122	122	122	122	122
Amino acid					
L-Alanyl-L-glutamine	–	–	–	–	–
L-Arginine monohydrochloride	126	126	126	126	126
L-Cystine dihydrochloride	31.3	31.3	31.3	31.3	31.3
L-Glutamine	–	292	292	292	292
L-Histidine hydrochloride monohydrate	42	42	42	42	42
L-Isoleucine	52	52	52	52	52
L-Leucine	52	52	52	52	52
L-Lysine monohydrochloride	72.5	72.5	72.5	72.5	72.5
L-Methionine	15	15	15	15	15
L-Phenylalanine	32	32	32	32	32
L-Threonine	48	48	48	48	48
L-Tryptophan	10	10	10	10	10
L-Tyrosine disodium salt dihydrate	51.9	51.9	51.9	51.9	51.9
L-Valine	46	46	46	46	46
Glycine	–	–	–	–	7.5
L-Alanine	–	–	–	–	8.9
L-Asparagine Monohydrate	–	–	–	–	15
L-Aspartic acid	–	–	–	–	13.3
L-Glutamic acid	–	–	–	–	14.7
L-Proline	–	–	–	–	11.5
L-Serine	–	–	–	–	10.5
Vitamin					
Choline chloride	1	1	1	1	1
D-Calcium pantothenate	1	1	1	1	1
Folic acid	1	1	1	1	1
Niacinamide	1	1	1	1	1
Pyridoxal hydrochloride	1	1	1	1	1
Riboflavin	0.1	0.1	0.1	0.1	0.1

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Thiamine hydrochlorid	1	1	1	1	1
Meso-inositol	2	2	2	2	2
Others					
D-Glucose	1000	1000	1000	1000	–
HEPES	–	5958	–	5958	–
Phenol red	10	10	–	–	10
Penicillin G sodium salt	–	–	–	–	–
Streptomycin sulfate	–	–	–	–	–

Ingredient \ Cat. No.	EP-CM-L0168	EP-CM-L0169	EP-CM-L0173	EP-CM-L0175	EP-CM-L0179
Inorganic salt					
CaCl ₂ (Anhydrous)	200	200	200	200	200
MgSO ₄ (Anhydrous)	97.67	97.67	97.67	97.67	97.67
KCl	400	400	400	400	400
NaHCO ₃	2200	2200	2200	2200	2200
NaCl	6800	6350	6800	6350	6800
NaH ₂ PO ₄ (Anhydrous)	122	122	122	122	122
Amino acid					
L-Alanyl-L-glutamine	–	–	–	–	–
L-Arginine monohydrochloride	126	126	126	126	126
L-Cystine dihydrochloride	31.3	31.3	31.3	31.3	31.3
L-Glutamine	–	292	292	292	292
L-Histidine hydrochloride monohydrate	42	42	42	42	42
L-Isoleucine	52	52	52	52	52
L-Leucine	52	52	52	52	52
L-Lysine monohydrochloride	72.5	72.5	72.5	72.5	72.5
L-Methionine	15	15	15	15	15
L-Phenylalanine	32	32	32	32	32
L-Threonine	48	48	48	48	48
L-Tryptophan	10	10	10	10	10
L-Tyrosine disodium salt dihydrate	51.9	51.9	51.9	51.9	51.9
L-Valine	46	46	46	46	46
Glycine	7.5	7.5	7.5	7.5	–
L-Alanine	8.9	8.9	8.9	8.9	–
L-Asparagine Monohydrate	15	15	15	15	–
L-Aspartic acid	13.3	13.3	13.3	13.3	–
L-Glutamic acid	14.7	14.7	14.7	14.7	–
L-Proline	11.5	11.5	11.5	11.5	–
L-Serine	10.5	10.5	10.5	10.5	–
Vitamin					
Choline chloride	1	1	1	1	1
D-Calcium pantothenate	1	1	1	1	1
Folic acid	1	1	1	1	1
Niacinamide	1	1	1	1	1
Pyridoxal hydrochloride	1	1	1	1	1
Riboflavin	0.1	0.1	0.1	0.1	0.1

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Thiamine hydrochlorid	1	1	1	1	1
Meso-inositol	2	2	2	2	2
Others					
D-Glucose	–	–	–	–	–
HEPES	–	5958	–	5958	–
Phenol red	10	10	–	–	10
Penicillin G sodium salt	–	–	–	–	–
Streptomycin sulfate	–	–	–	–	–

Ingredient \ Cat. No.	EP-CM-L0180	EP-CM-L0181	EP-CM-L0182	EP-CM-L0183	EP-CM-L0184
Inorganic salt					
CaCl ₂ (Anhydrous)	200	200	200	200	200
MgSO ₄ (Anhydrous)	97.67	97.67	97.67	97.67	97.67
KCl	400	400	400	400	400
NaHCO ₃	2200	2200	2200	2200	2200
NaCl	6800	6350	6350	6800	6350
NaH ₂ PO ₄ (Anhydrous)	122	122	122	122	122
Amino acid					
L-Alanyl-L-glutamine	–	–	–	434	434
L-Arginine monohydrochloride	126	126	126	126	126
L-Cystine dihydrochloride	31.3	31.3	31.3	31.3	31.3
L-Glutamine	–	292	–	–	–
L-Histidine hydrochloride monohydrate	42	42	42	42	42
L-Isoleucine	52	52	52	52	52
L-Leucine	52	52	52	52	52
L-Lysine monohydrochloride	72.5	72.5	72.5	72.5	72.5
L-Methionine	15	15	15	15	15
L-Phenylalanine	32	32	32	32	32
L-Threonine	48	48	48	48	48
L-Tryptophan	10	10	10	10	10
L-Tyrosine disodium salt dihydrate	51.9	51.9	51.9	51.9	51.9
L-Valine	46	46	46	46	46
Glycine	–	–	–	–	–
L-Alanine	–	–	–	–	–
L-Asparagine Monohydrate	–	–	–	–	–
L-Aspartic acid	–	–	–	–	–
L-Glutamic acid	–	–	–	–	–
L-Proline	–	–	–	–	–
L-Serine	–	–	–	–	–
Vitamin					
Choline chloride	1	1	1	1	1
D-Calcium pantothenate	1	1	1	1	1
Folic acid	1	1	1	1	1
Niacinamide	1	1	1	1	1
Pyridoxal hydrochloride	1	1	1	1	1
Riboflavin	0.1	0.1	0.1	0.1	0.1

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Thiamine hydrochlorid	1	1	1	1	1
Meso-inositol	2	2	2	2	2
Others					
D-Glucose	–	–	–	–	–
HEPES	–	5958	5958	–	5958
Phenol red	10	10	10	10	10
Penicillin G sodium salt	–	–	–	–	–
Streptomycin sulfate	–	–	–	–	–

Ingredient \Cat. No.	EP-CM-L0185	EP-CM-L0186
Inorganic salt		
CaCl ₂ (Anhydrous)	200	200
MgSO ₄ (Anhydrous)	97.67	97.67
KCl	400	400
NaHCO ₃	2200	2200
NaCl	6800	6800
NaH ₂ PO ₄ (Anhydrous)	122	122
Amino acid		
L-Alanyl-L-glutamine	–	–
L-Arginine monohydrochloride	126	126
L-Cystine dihydrochloride	31.3	31.3
L-Glutamine	292	–
L-Histidine hydrochloride monohydrate	42	42
L-Isoleucine	52	52
L-Leucine	52	52
L-Lysine monohydrochloride	72.5	72.5
L-Methionine	15	15
L-Phenylalanine	32	32
L-Threonine	48	48
L-Tryptophan	10	10
L-Tyrosine disodium salt dihydrate	51.9	51.9
L-Valine	46	46
Glycine	–	–
L-Alanine	–	–
L -Asparagine Monohydrate	–	–
L-Aspartic acid	–	–
L-Glutamic acid	–	–
L-Proline	–	–
L-Serine	–	–
Vitamin		
Choline chloride	1	1
D-Calcium pantothenate	1	1
Folic acid	1	1
Niacinamide	1	1
Pyridoxal hydrochloride	1	1
Riboflavin	0.1	0.1
Thiamine hydrochlorid	1	1

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Meso-inositol	2	2
Others		
D-Glucose	–	–
HEPES	–	–
Phenol red	–	–
Penicillin G sodium salt	–	–
Streptomycin sulfate	–	–

Ingredient \ Cat. No.	EP-CM-L0186	EP-CM-L0187
Inorganic salt		
CaCl ₂ (Anhydrous)	200	200
MgSO ₄ (Anhydrous)	97.67	97.67
KCl	400	400
NaHCO ₃	850	2200
NaCl	6800	6350
NaH ₂ PO ₄ (Anhydrous)	122	122
ZnSO ₄ •6H ₂ O	–	–
Amino acid		
L-Alanyl-L-glutamine	–	–
L-Arginine monohydrochloride	126.4	126
L-Cystine dihydrochloride	24.02	31.3
L-Glutamine	–	292
L-Histidine hydrochloride monohydrate	41.92	42
L-Isoleucine	52.4	52
L-Leucine	52.4	52
L-Lysine monohydrochloride	73.06	72.5
L-Methionine	14.92	15
L-Phenylalanine	33.02	32
L-Threonine	47.64	48
L-Tryptophan	10.2	10
L-Tyrosine disodium salt dihydrate	36.22	51.9
L-Valine	46.86	46
Glycine	10.5	–
L-Alanine	8.9	–
L -Asparagine Monohydrate	15	–
L-Aspartic acid	13.3	–
L-Glutamic acid	14.7	–
L-Proline	11.5	–
L-Serine	10.5	–
Vitamin		
Choline chloride	1	1
D-Calcium pantothenate	1	1
Folic acid	1	1
Niacinamide	1	1
Pyridoxal hydrochloride	1	1
Riboflavin	0.1	0.1

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Thiamine hydrochlorid	1	1
Vitamin B12	–	
Meso-inositol	2	2
Others		
D-Glucose	1000	–
Phenol red	10	–
HEPES	–	5958