

Catalog No.	10-013 1X, Liquid	10-014 1X, Liquid	10-017 1X, Liquid	15-013 1X, Liquid	15-017 1X, Liquid
	DMEM	DMEM	DMEM	DMEM	DMEM
Inorganic Salts	mg/L	mg/L	mg/L	mg/L	mg/L
CaCl ₂ (anhydrous)	200.00	200.00	200.00	200.00	200.00
Fe(NO ₃) ₃ ·9H ₂ O	0.10	0.10	0.10	0.10	0.10
KCl	400.00	400.00	400.00	400.00	400.00
MgSO ₄ (anhydrous)	97.70	97.70	97.70	97.70	97.70
NaCl	6400.00	6400.00	6400.00	6400.00	6400.00
NaH ₂ PO ₄ ·H ₂ O	125.00	125.00	125.00	125.00	125.00
NaHCO ₃	3700.00	3700.00	3700.00	3700.00	3700.00
Amino Acids					
L-Arginine·HCl	84.00	84.00	84.00	84.00	84.00
L-Cystine·2HCl	62.57	62.57	62.57	62.57	62.57
L-Glutamine	584.00	584.00	584.00	—	—
Glycine	30.00	30.00	30.00	30.00	30.00
L-Histidine·HCl·H ₂ O	42.00	42.00	42.00	42.00	42.00
L-Isoleucine	104.80	104.80	104.80	104.80	104.80
L-Leucine	104.80	104.80	104.80	104.80	104.80
L-Lysine·HCl	146.20	146.20	146.20	146.20	146.20
L-Methionine	30.00	30.00	30.00	30.00	30.00
L-Phenylalanine	66.00	66.00	66.00	66.00	66.00
L-Serine	42.00	42.00	42.00	42.00	42.00
L-Threonine	95.20	95.20	95.20	95.20	95.20
L-Tryptophan	16.00	16.00	16.00	16.00	16.00
L-Tyrosine·2Na·2H ₂ O	103.79	103.79	103.79	103.79	103.79
L-Valine	94.00	94.00	94.00	94.00	94.00
Vitamins					
D-Calcium pantothenate	4.00	4.00	4.00	4.00	4.00
Choline chloride	4.00	4.00	4.00	4.00	4.00
Folic acid	4.00	4.00	4.00	4.00	4.00
i-Inositol	7.20	7.20	7.20	7.20	7.20
Nicotinamide	4.00	4.00	4.00	4.00	4.00
Pyridoxine·HCl	4.00	4.00	4.00	4.00	4.00
Riboflavin	0.40	0.40	0.40	0.40	0.40
Thiamine·HCl	4.00	4.00	4.00	4.00	4.00
Other					
D-Glucose	4500.00	1000.00	4500.00	4500.00	4500.00
Phenol red, Na	15.00	15.00	15.00	15.00	15.00
Sodium pyruvate	110.00	110.00	—	110.00	—
HEPES	—	—	—	—	—
Add					
NaHCO ₃					
Powder (g/L)	—	—	—	—	—
7.5% Solution (mL/L)	—	—	—	—	—
L-Glutamine					
Powder (mg/L)	—	—	—	584.00	584.00
200 mM Solution (mL/L)	—	—	—	20.00	20.00
Specifications					
pH (before buffer)	N/A	N/A	N/A	N/A	N/A
pH (after buffer)	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2
Osmolality (mOsm)	335 ± 30	335 ± 30	335 ± 30	335 ± 30	335 ± 30
Grams of powder required to prepare 1L (1X Solution)	N/A	N/A	N/A	N/A	N/A

Dulbecco's Modification of Eagle's Medium (DMEM)

Catalog No.	15-018 1X, Liquid DMEM	17-204 1X, Liquid DMEM	17-205 1X, Liquid DMEM	17-206 1X, Liquid DMEM
Inorganic Salts	mg/L	mg/L	mg/L	mg/L
CaCl ₂ (anhydrous)	200.00	200.00	200.00	200.00
Fe(NO ₃) ₃ ·9H ₂ O	0.10	0.10	0.10	0.10
KCl	400.00	400.00	400.00	400.00
MgSO ₄ (anhydrous)	97.70	97.70	97.70	97.70
NaCl	6400.00	6400.00	6400.00	6400.00
NaH ₂ PO ₄ ·H ₂ O	125.00	125.00	125.00	—
NaHCO ₃	3700.00	3700.00	3700.00	3700.00
Amino Acids				
L-Arginine·HCl	84.00	84.00	84.00	84.00
L-Cystine·2HCl	62.57	—	62.57	62.57
L-Glutamine	—	—	—	—
Glycine	30.00	30.00	30.00	30.00
L-Histidine·HCl·H ₂ O	42.00	42.00	42.00	42.00
L-Isoleucine	104.80	104.80	104.80	104.80
L-Leucine	104.80	104.80	104.80	104.80
L-Lysine·HCl	146.20	146.20	146.20	146.20
L-Methionine	30.00	—	30.00	30.00
L-Phenylalanine	66.00	66.00	66.00	66.00
L-Serine	42.00	42.00	42.00	42.00
L-Threonine	95.20	95.20	95.20	95.20
L-Tryptophan	16.00	16.00	16.00	16.00
L-Tyrosine·2Na·2H ₂ O	103.79	103.79	103.79	103.79
L-Valine	94.00	94.00	94.00	94.00
Vitamins				
D-Calcium pantothenate	4.00	4.00	4.00	4.00
Choline chloride	4.00	4.00	4.00	4.00
Folic acid	4.00	4.00	4.00	4.00
i-Inositol	7.20	7.20	7.20	7.20
Nicotinamide	4.00	4.00	4.00	4.00
Pyridoxine·HCl	4.00	4.00	4.00	4.00
Riboflavin	0.40	0.40	0.40	0.40
Thiamine·HCl	4.00	4.00	4.00	4.00
Other				
D-Glucose	4500.00	4500.00	4500.00	4500.00
Phenol red, Na	15.00	15.00	—	15.00
Sodium pyruvate	110.00	110.00	110.00	110.00
HEPES	5958.00	—	—	—
Add				
NaHCO ₃ Powder (g/L)	—	—	—	—
7.5% Solution (mL/L)	—	—	—	—
L-Glutamine Powder (mg/L)	584.00	584.00	584.00	584.00
200 mM Solution (mL/L)	20.00	20.00	20.00	20.00
Specifications				
pH (before buffer)	N/A	N/A	N/A	N/A
pH (after buffer)	7.2 ± 0.2 (20°C)	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2
Osmolality (mOsm)	354 ± 10	For Information	335 ± 30	For Information
Grams of powder required to prepare 1L (1X Solution)	N/A	N/A	N/A	N/A

Dulbecco's Modification of Eagle's Medium (DMEM)

Catalog No.	50-003 Powder DMEM	50-013 Powder DMEM	50-014 Powder DMEM	90-013 Powder DMEM	90-113 Powder DMEM
Inorganic Salts	mg/L	mg/L	mg/L	mg/L	mg/L
CaCl ₂ (anhydrous)	200.00	200.00	200.00	200.00	200.00
Fe(NO ₃) ₃ •9H ₂ O	0.10	0.10	0.10	0.10	0.10
KCl	400.00	400.00	400.00	400.00	400.00
MgSO ₄ (anhydrous)	97.70	97.70	97.70	97.70	97.70
NaCl	6400.00	6400.00	6400.00	6400.00	6400.00
NaH ₂ PO ₄ •H ₂ O	125.00	125.00	125.00	125.00	125.00
NaHCO ₃	—	—	—	—	—
Amino Acids					
L-Arginine•HCl	84.00	84.00	84.00	84.00	84.00
L-Cystine•2HCl	62.57	62.57	62.57	62.57	62.57
L-Glutamine	584.00	584.00	584.00	—	—
Glycine	30.00	30.00	30.00	30.00	30.00
L-Histidine•HCl•H ₂ O	42.00	42.00	42.00	42.00	42.00
L-Isoleucine	104.80	104.80	104.80	104.80	104.80
L-Leucine	104.80	104.80	104.80	104.80	104.80
L-Lysine•HCl	146.20	146.20	146.20	146.20	146.20
L-Methionine	30.00	30.00	30.00	30.00	30.00
L-Phenylalanine	66.00	66.00	66.00	66.00	66.00
L-Serine	42.00	42.00	42.00	42.00	42.00
L-Threonine	95.20	95.20	95.20	95.20	95.20
L-Tryptophan	16.00	16.00	16.00	16.00	16.00
L-Tyrosine•2Na•2H ₂ O	103.79	103.79	103.79	103.79	103.79
L-Valine	94.00	94.00	94.00	94.00	94.00
Vitamins					
D-Calcium pantothenate	4.00	4.00	4.00	4.00	4.00
Choline chloride	4.00	4.00	4.00	4.00	4.00
Folic acid	4.00	4.00	4.00	4.00	4.00
i-Inositol	7.20	7.20	7.20	7.20	7.20
Nicotinamide	4.00	4.00	4.00	4.00	4.00
Pyridoxine•HCl	4.00	4.00	4.00	4.00	4.00
Riboflavin	0.40	0.40	0.40	0.40	0.40
Thiamine•HCl	4.00	4.00	4.00	4.00	4.00
Other					
D-Glucose	4500.00	4500.00	1000.00	4500.00	—
Phenol red, Na	15.00	15.00	15.00	—	—
Sodium pyruvate	110.00	—	110.00	—	—
HEPES	—	—	—	—	—
Add					
NaHCO ₃					
Powder (g/L)	3.70	3.70	3.70	3.70	3.70
7.5% Solution (mL/L)	49.40	49.40	49.40	49.40	49.40
L-Glutamine					
Powder (mg/L)	—	—	—	584.00	584.00
200 mM Solution (mL/L)	—	—	—	20.00	20.00
Specifications					
pH (before buffer)	6.5 ± 0.5	6.5 ± 0.5	6.3 ± 1.0	6.5 ± 0.5	6.5 ± 0.5
pH (after buffer)	7.8 ± 0.5	7.8 ± 0.5	8.0 ± 1.0	7.8 ± 0.5	7.8 ± 0.5
Osmolality (mOsm)	335 ± 30	335 ± 30	335 ± 30	335 ± 30	335 ± 30
Grams of powder required to prepare 1L (1X Solution)	13.48	13.37	9.98	12.78	8.28