

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
<b>Inorganic Salts</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>
CaCl <sub>2</sub> (anhydrous)	200.00	200.00	200.00	200.00	200.00
Fe(NO <sub>3</sub> ) <sub>3</sub> ·9H <sub>2</sub> O	0.10	0.10	0.10	0.10	0.10
KCl	400.00	400.00	400.00	400.00	400.00
MgSO <sub>4</sub> (anhydrous)	97.70	97.70	97.70	97.70	97.70
NaCl	6400.00	6400.00	6400.00	6400.00	6400.00
NaH <sub>2</sub> PO <sub>4</sub> ·H <sub>2</sub> O	125.00	125.00	125.00	125.00	125.00
NaHCO <sub>3</sub>	3700.00	3700.00	3700.00	3700.00	3700.00
<b>Amino Acids</b>					
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 <sub>2</sub> 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 <sub>2</sub> O	103.79	103.79	103.79	103.79	103.79
L-Valine	94.00	94.00	94.00	94.00	94.00
<b>Vitamins</b>					
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
<b>Other</b>					
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	—	—	—	—	—
<b>Add</b>					
NaHCO <sub>3</sub>					
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
<b>Specifications</b>					
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
<b>Inorganic Salts</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>
CaCl <sub>2</sub> (anhydrous)	200.00	200.00	200.00	200.00
Fe(NO <sub>3</sub> ) <sub>3</sub> ·9H <sub>2</sub> O	0.10	0.10	0.10	0.10
KCl	400.00	400.00	400.00	400.00
MgSO <sub>4</sub> (anhydrous)	97.70	97.70	97.70	97.70
NaCl	6400.00	6400.00	6400.00	6400.00
NaH <sub>2</sub> PO <sub>4</sub> ·H <sub>2</sub> O	125.00	125.00	125.00	—
NaHCO <sub>3</sub>	3700.00	3700.00	3700.00	3700.00
<b>Amino Acids</b>				
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 <sub>2</sub> 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 <sub>2</sub> O	103.79	103.79	103.79	103.79
L-Valine	94.00	94.00	94.00	94.00
<b>Vitamins</b>				
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
<b>Other</b>				
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	—	—	—
<b>Add</b>				
NaHCO <sub>3</sub>				
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
<b>Specifications</b>				
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
<b>Inorganic Salts</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>
CaCl <sub>2</sub> (anhydrous)	200.00	200.00	200.00	200.00	200.00
Fe(NO <sub>3</sub> ) <sub>3</sub> •9H <sub>2</sub> O	0.10	0.10	0.10	0.10	0.10
KCl	400.00	400.00	400.00	400.00	400.00
MgSO <sub>4</sub> (anhydrous)	97.70	97.70	97.70	97.70	97.70
NaCl	6400.00	6400.00	6400.00	6400.00	6400.00
NaH <sub>2</sub> PO <sub>4</sub> •H <sub>2</sub> O	125.00	125.00	125.00	125.00	125.00
NaHCO <sub>3</sub>	—	—	—	—	—
<b>Amino Acids</b>					
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 <sub>2</sub> 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 <sub>2</sub> O	103.79	103.79	103.79	103.79	103.79
L-Valine	94.00	94.00	94.00	94.00	94.00
<b>Vitamins</b>					
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
<b>Other</b>					
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	—	—	—	—	—
<b>Add</b>					
NaHCO <sub>3</sub>					
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
<b>Specifications</b>					
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