

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

Catalog No.	10-013 1X, Liquid DMEM	10-014 1X, Liquid DMEM	10-017 1X, Liquid DMEM	15-013 1X, Liquid DMEM	15-017 1X, Liquid 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	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2
Osmolality (mOsm/kg H ₂ O)	335 ± 30	335 ± 30	335 ± 30	335 ± 30	335 ± 30

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	7.2 ± 0.2 (20°C)	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2
Osmolality (mOsm/kg H ₂ O)	354 ± 10	338 ± 20	335 ± 30	340 ± 20

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/kg) (after adjustment)	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