

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

Catalog no.	319-005 1X, Liquid DMEM	319-006 1X, Liquid DMEM	319-010 1X, Liquid DMEM	319-015 1X, Liquid DMEM	319-016 1X, Liquid DMEM	319-020 1X, Liquid DMEM	319-025 1X, Liquid DMEM	319-030 1X, Liquid DMEM	319-035 1X, Liquid DMEM	319-045 1X, Liquid DMEM
Inorganic Salts	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CaCl ₂ (anhydrous)	200.00	200.00	200.00	200.00	200.00	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	0.10	0.10	0.10	0.10	0.10
KCl	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00
MgSO ₄ (anhydrous)	97.70	97.70	97.70	97.70	97.70	97.70	97.70	97.70	97.70	97.70
NaCl	6400.00	6400.00	6400.00	6400.00	6400.00	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	125.00	125.00	125.00	125.00	125.00
NaHCO ₃	3700.00	3700.00	3700.00	3700.00	3700.00	1500.00	3700.00	3700.00	3700.00	3700.00
Amino Acids										
L-Arginine·HCl	84.00	84.00	84.00	84.00	84.00	84.00	84.00	84.00	84.00	84.00
L-Cystine·2HCl	62.57	62.57	62.57	62.57	62.57	62.57	62.57	62.57	62.57	----
L-Glutamine	584.00	584.00	584.00	584.00	584.00	584.00	----	----	----	----
Glycine	30.00	30.00	30.00	30.00	30.00	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	42.00	42.00	42.00	42.00	42.00
L-Isoleucine	104.80	104.80	104.80	104.80	104.80	104.80	104.80	104.80	104.80	104.80
L-Leucine	104.80	104.80	104.80	104.80	104.80	104.80	104.80	104.80	104.80	104.80
L-Lysine·HCl	146.20	146.20	146.20	146.20	146.20	146.20	146.20	146.20	146.20	146.20
L-Methionine	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	----
L-Phenylalanine	66.00	66.00	66.00	66.00	66.00	66.00	66.00	66.00	66.00	66.00
L-Serine	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00
L-Threonine	95.20	95.20	95.20	95.20	95.20	95.20	95.20	95.20	95.20	95.20
L-Tryptophan	16.00	16.00	16.00	16.00	16.00	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	103.79	103.79	103.79	103.79	103.79
L-Valine	94.00	94.00	94.00	94.00	94.00	94.00	94.00	94.00	94.00	94.00
Vitamins										
D-Calcium pantothenate	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Choline chloride	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Folic acid	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
i-Inositol	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20
Nicotinamide	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Pyridoxine·HCl	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Riboflavin	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Thiamine·HCl	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Other										
D-Glucose	4500.00	4500.00	1000.00	4500.00	4500.00	4500.00	4500.00	4500.00	4500.00	4500.00
Phenol red, Na	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
Sodium pyruvate	110.00	110.00	110.00	----	----	----	110.00	----	110.00	110.00
HEPES	----	5958.00	----	----	5958.00	----	----	----	5958.00	----
Specifications										
pH (after buffer)	7.2 ±0.2	7.2 ±0.2	7.2 ±0.2	7.2 ±0.2	7.2 ±0.2	7.2 ±0.2	7.2 ±0.2	7.2 ±0.2	7.2 ±0.2	7.2 ±0.2
Osmolality (mOsm/kg)	335± 30	335± 30	320± 30	335± 30	345± 30	290± 30	335 ± 30	335 ± 30	354 ± 10	338 ± 20

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

Catalog no.	319-012 1X, Liquid DMEM	319-013 1X, Liquid DMEM	319-014 1X, Liquid DMEM	319-007 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	8245.50	6400.00
NaH ₂ PO ₄ ·H ₂ O	125.00	125.00	125.00	125.00
NaHCO ₃	3700.00	3700.00	-----	1500.0
Amino Acids				
L-Arginine·HCl	84.00	84.00	84.00	84.00
L-Cystine·2HCl	62.57	62.57	62.57	62.57
L-Glutamine	584.00	-----	-----	584.00
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	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	1000.00	1000.00	4500.00	4500.00
Phenol red, Na	----	----	15.00	15.00
Sodium pyruvate	110.00	110.00	110.00	110.00
HEPES				
Specifications				
pH (after buffer)	7.2 ± 0.2	7.2 ± 0.2	7.4 ± 0.2	7.2 ± 0.2
Osmolality (mOsm/kg)	320 ± 30	320 ± 30	Info	290 ± 30

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

Catalog no.	319-050 1X, Liquid DMEM	319-051 1X, Liquid DMEM	319-055 1X, Liquid DMEM	319-060 1X, Liquid DMEM	319-061 1X, Liquid DMEM	319-062 1X, Liquid DMEM	319-065 1X, Liquid DMEM	319-066 1X, Liquid DMEM	319-070 1X, Liquid DMEM	319-165 liquid DMEM
Inorganic Salts	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CaCl ₂ (anhydrous)	200.00	200.00	200.00	200.00	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	0.10	0.10	0.10	0.10	0.10
KCl	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00
MgSO ₄ (anhydrous)	97.70	97.70	97.70	97.70	97.70	97.70	97.70	97.70	97.70	97.70
NaCl	6400.00	6400.00	6400.00	6400.00	6400.00	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	125.00	125.00	125.00	125.00
NaHCO ₃	3700.00	3700.00	3700.00	3700.00	3700.00	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	84.00	84.00	84.00	84.00	84.00
L-Cystine·2HCl	62.57	62.57	62.57	62.57	62.57	62.57	62.57	62.57	62.57	62.57
L-Glutamine	----	584.00	----	584.00	584.00	----	----	584.00	584.00	584.00
Glycine	30.00	30.00	30.00	30.00	30.00	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	42.00	42.00	42.00	42.00	42.00
L-Isoleucine	104.80	104.80	104.80	104.80	104.80	104.80	104.80	104.80	104.80	104.80
L-Leucine	104.80	104.80	104.80	104.80	104.80	104.80	104.80	104.80	104.80	104.80
L-Lysine·HCl	146.20	146.20	146.20	146.20	146.20	146.20	146.20	146.20	146.20	146.20
L-Methionine	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
L-Phenylalanine	66.00	66.00	66.00	66.00	66.00	66.00	66.00	66.00	66.00	66.00
L-Serine	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00	105.1	42.00
L-Threonine	95.20	95.20	95.20	95.20	95.20	95.20	95.20	95.20	95.20	95.20
L-Tryptophan	16.00	16.00	16.00	16.00	16.00	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	103.79	103.79	103.79	103.79	103.79
L-Valine	94.00	94.00	94.00	94.00	94.00	94.00	94.00	94.00	94.00	94.00
Vitamins										
D-Calcium pantothenate	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Choline chloride	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Folic acid	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
i-Inositol	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20
Nicotinamide	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Pyridoxine·HCl	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Riboflavin	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Thiamine·HCl	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Other										
D-Glucose	4500.00	4500.00	4500.00	----	----	----	4500.00	4500.00	4500.00	4500.00
Phenol red, Na	----	----	15.00	----	15.00	15.00	----	----	15.00	----
Sodium pyruvate	110.00	110.0	110.00	----	----	----	----	110.00	110.00	----
HEPES	----	----	----					5958.00	----	5958.00
Specifications										
pH (after buffer)	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.2 ± 0.2	7.4 ± 0.1	7.2 ± 0.2
Osmolality (mOsm/kg)	335 ± 30	335 ± 30	340 ± 20	335± 30	335± 30	335± 30	335 ± 30	335 ± 30	335 ± 30	335± 30

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

Catalog no.	219-010 Powder DMEM	219-015 Powder DMEM	219-020 Powder DMEM	219-060 Powder DMEM	219-065 Powder DMEM	219-070 1X, Powder DMEM
Inorganic Salts	mg/L	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	0.10
KCl	400.00	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	125.00
NaHCO ₃	----	----	----	----	----	----
Amino Acids						
L-Arginine·HCl	84.00	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	30.00
L-Histidine·HCl·H ₂ O	42.00	42.00	42.00	42.00	42.00	42.00
L-Isoleucine	104.80	104.80	104.80	104.80	104.80	104.80
L-Leucine	104.80	104.80	104.80	104.80	104.80	104.80
L-Lysine·HCl	146.20	146.20	146.20	146.20	146.20	146.20
L-Methionine	30.00	30.00	30.00	30.00	30.00	30.00
L-Phenylalanine	66.00	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	95.20
L-Tryptophan	16.00	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	103.79
L-Valine	94.00	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	4.00
Folic acid	4.00	4.00	4.00	4.00	4.00	4.00
i-Inositol	7.20	7.20	7.20	7.20	7.20	7.20
Nicotinamide	4.00	4.00	4.00	4.00	4.00	4.00
Pyridoxine·HCl	4.00	4.00	4.00	4.00	4.00	4.00
Riboflavin	0.40	0.40	0.40	0.40	0.40	0.40
Thiamine·HCl	4.00	4.00	4.00	4.00	4.00	4.00
Other						
D-Glucose	4500.00	4500.00	1000.00	----	4500.00	4500.00
Phenol red, Na	15.00	15.00	15.00	----	----	----
Sodium pyruvate	110.00	----	110.00	----	----	----
Specifications						
pH (after buffer)	7.8 ± 0.5	7.8 ± 0.5	8.0 ± 1.0	7.8 ± 0.5	7.8 ± 0.5	7.4 ± 0.1
Osmolality (mOsm/kg)	335 ± 30	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	8.28	12.78	5.96949

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