Dulbecco's Modification of Eagle's Medium (DMEM)/F-12 50/50 MIX Formulation

Catalog no.	219-000 powder DMEM/F12
Inorganic Salts	mg/L
$CaCl_2$ (anhydrous)	116.65
$CuSO_4$ (anhydrous)	0.0008
$Fe(NO_3)_3 \cdot 9H_2O$	0.05
$FeSO_4 \cdot 7H_2O$	0.417
KCl	311.80
$MgSO_4$ (anhydrous)	84.95
NaCl	7000.00
$NaH_2PO_4 \cdot H_2O$	62.50
Na_2HPO_4 (anhydrous)	71.00
$ZnSO_4 \cdot 7H_2O$	0.4315
Amino Acids	
L-Alanine	4.45
L-Arginine·HCl	147.50
L-Asparagine·H_2O	7.50
L-Aspartic acid	6.65
L-Cysteine·HCl·H_2O	17.56
L-Cystine·2HCl	31.285
L-Glutamic acid	7.35
Glycine	18.75
L-Histidine·HCl·H_2O	31.48
L-Isoleucine	54.37
L-Leucine	58.95
L-Lysine·HCl	91.35
L-Methionine	17.24
L-Phenylalanine	35.48
L-Proline	17.25
L-Serine	26.25
L-Threonine	53.55
L-Tryptophan	9.02
L-Tyrosine·2Na·2H_2O	55.815
L-Valine	52.85

Dulbecco's Modification of Eagle's Medium (DMEM)/F-12 50/50 MIX Formulation, Contd.

Catalog no.	219-000 Powder DMEM/F12
Vitamins	mg/L
Biotin	0.00365
D-Calcium pantothenate	2.24
Choline chloride	8.98
Folic acid	2.65
i-Inositol	12.61
Nicotinamide	2.0185
Pyridoxine·HCl	2.031
Riboflavin	0.219
Thiamine·HCl	2.17
Vitamin B_{12}	0.68
Other	
D-Glucose	3151.00
HEPES	----
Hypoxanthine, Na	2.385
Lipoic acid	0.105
Methyl lineoleate	0.044
Phenol red, Na	----
Putrescine·2HCl	0.08
Sodium pyruvate	110.00
Thymidine	0.365
Specifications	
pH (after buffer)	8.0 ± 0.5
Osmolality (mOsm/kg)	290 ± 30
Grams of powder required to prepare 1L (1X Solution)	11.69