



WISENT INC.

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

Catalog no.	319-093 1X, Liquid DMEM/F12
Inorganic Salts	mg/L
CaCl ₂ (anhydrous)	116.65
CuSO ₄ (anhydrous)	0.0008
Fe(NO ₃) ₃ ·9H ₂ O	0.05
FeSO ₄ ·7H ₂ O	0.417
KCl	311.80
MgSO ₄ (anhydrous)	84.95
NaCl	7000.00
NaH ₂ PO ₄ ·H ₂ O	62.50
Na ₂ HPO ₄ (anhydrous)	71.00
NaHCO ₃	2438.00
ZnSO ₄ ·7H ₂ O	0.4315
Amino Acids	
L-Alanine	4.45
L-Arginine·HCl	147.50
L-Asparagine·H ₂ O	7.50
L-Aspartic acid	6.65
L-Cysteine·HCl·H ₂ O	17.56
L-Cystine·2HCl	31.285
L-Glutamic acid	7.35
L-Glutamine	----
Glycine	18.75
L-Histidine·HCl·H ₂ O	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 ₂ O	55.815
L-Valine	52.85



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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	3574.52
Hypoxanthine, Na	2.385
Lipoic acid	0.105
Methyl linoleate	0.044
Phenol red, Na	8.10
Putrescine·2HCl	0.08
Sodium pyruvate	110.00
Thymidine	0.365
Specifications	
pH (after buffer)	7.2 ± 0.2
Osmolality (mOsm/kg)	310 ± 30