



PurMa Biologics, LLC

Advanced Dulbecco's Modified Eagle's Medium/Nutrient Mixture F-12 Ham (A-DMEM/F12)

Containing PurMa™ GlutaSup (2.5mM L-Alanyl-L-Glutamine) (543 mg/L)

Requires 2-5% FBS,

Standard Formulation

Amino Acids	g/liter	Proteins	g/liter
L-Arginine·HCl	0.147	PurMa™ AlbuSup (Albumin)*	0.4
L-Alanine	0.0044	Human Transferrin (Holo)	0.0075
L-Asparagine·H ₂ O	0.0075	Insulin Recombinant Full Chain	0.010
L-Cystine·2HCl	0.031	Vitamins	g/liter
L-Cysteine hydrochloride·H ₂ O	0.01756	Choline Chloride	0.0089
L-Aspartic acid	0.0066	Folic Acid	0.0026
Glycine	0.0187	myo-Inositol	0.0126
L-Glutamic Acid	0.00735	Nicotinamide	0.002
L-Alanyl-L-Glutamine	0.543	D-Pantothenic Acid	0.00224
L-Histidine·HCl·H ₂ O	0.031	Pyridoxine· HCl	0.002
L-Isoleucine	0.54	Riboflavin	0.00022
L-Leucine	0.059	Vitamin B12	0.00068
L-Lysine·HCl	0.0913	Biotin	0.000035
L-Methionine	0.01724	Thiamine· HCl	0.00217
L-Phenylalanine	0.035	Ascorbic Acid Phosphate	0.0025
L-Serine	0.026	Others	g/liter
L-Proline	0.017	Phenol Red	0.0081
L-Threonine	0.053	Sodium Pyruvate	0.110
L-Tryptophan	0.009	D-Glucose	3.15
L-Tyrosine·2Na·2H ₂ O	0.0558	Ethanolamine	0.0019
L-Valine	0.05285	Hypoxanthine Na	0.00239
Inorganic Salts	g/liter	Linoleic Acid	0.000042
CaCl ₂ (anhydrous)	0.1166	Lipoic Acid	0.000105
Fe (NO ₃) ₃ ·9H ₂ O	0.00005	Thymidine	0.000365
FeSO ₄ ·7H ₂ O	0.000417	Putrescine 2HCl	0.000081
MgCl ₂ (anhydrous)	0.0286	Trace Elements	g/liter
MgSO ₄ (anhydrous)	0.0488	Ammonium Metavanadate	3X 10 ⁻⁷
Sodium Bicarbonate	2.438	Sodium Selenite	5X 10 ⁻⁶
CuSO ₄ ·5H ₂ O	0.0000013	MnCl ₂	5X 10 ⁻⁸
NaCl	6.9	Reducing Agents	g/liter
KCl	0.31	Glutathione, monosodium	0.001
NaH ₂ PO ₄ (anhydrous)	0.062		
Na ₂ HPO ₄ (anhydrous)	0.071		
ZnSO ₄ ·7H ₂ O	0.00086		

* Chromatographically purified with IgG content <=0.1.0%.