



PurMa Biologics, LLC.

Advanced William's E Medium

Cat Number: P3A210880

Containing PurMa™ GlutaSup (4 mM L-Alanyl-L-Glutamine) (868 mg/L)

Requires % 2-5 FBS

Standard Formulation

Amino Acids	g/L	Vitamins	g/L
Glycine	0.05	Ascorbic Acid	0.002
L-Alanine	0.09	Biotin	0.0005
L-Arginine	0.1	Choline chloride	0.0015
L-Asparagine-H ₂ O	0.02	D-Calcium pantothenate	0.001
L-Aspartic acid	0.03	Ergocalciferol	0.01
L-Alanyl-L-Glutamine	0.434	Folic Acid	0.001
L-Cysteine	0.04	Menadione sodium bisulfate	0.1X 10 ⁻³
L-Cystine 2HCl	0.05	Niacinamide	0.001
L-Glutamic Acid	0.05	Pyridoxal hydrochloride	0.001
L-Histidine	0.03	Riboflavin	0.0001
L-Isoleucine	0.1	Thiamine hydrochloride	0.001
L-Leucine	0.15	Vitamin A (acetate)	0.0001
L-Lysine hydrochloride	0.18	Vitamin B12	0.0002
L-Methionine	0.030	α-Tocopherol phos. Na salt	0.1X 10 ⁻³
L-Phenylalanine	0.050	i-Inositol	0.002
L-Proline	0.03	Inorganic Salts	g/L
L-Serine	0.01	CuSO ₄ ·5H ₂ O	0.10X 10 ⁻⁸
L-Threonine	0.08	Fe (NO ₃) ₉ H ₂ O	0.10X 10 ⁻⁸
L-Tryptophan	0.02	MgSO ₄ (anhydrous)	0.098
L-Tyrosine disodium salt dihydrate	0.051	MnCl ₂ ·4H ₂ O	0.10X 10 ⁻⁸
L-Valine	0.10	KCl	0.4
Other Elements	g/L	NaHCO ₃	2.2
Glucose	2.00	NaCl	6.8
Methyl linoleate	0.3X 10 ⁻³	NaH ₂ PO ₄ (anhydrous)	0.14
Phenol Red	0.01	ZnSO ₄ ·7H ₂ O	0.2X 10 ⁻⁸
Sodium Pyruvate	0.055	Reducing Agents	g/liter
		Glutathione, monosodium	0.001
Trace Elements	g/liter	Proteins	g/liter
Ammonium Metavanadate	0.3 X 10 ⁻⁶	PurMa™ AlbuSup (Albumin)*	0.4
Cupric Sulfate	1.25 X 10 ⁻⁶	Human Transferrin (Holo)	0.0075
Manganous Chloride	0.5 X 10 ⁻⁶	Insulin Recombinant Full Chain	0.010
Sodium Selenite	0.5 X 10 ⁻⁶		

*Chromatographically purified with IgG content ≤0.1.0%.