



Formulation for Optimized Dulbecco's Modified Eagle's Medium (DMEM) C0003-02

Inorganic Salts (g/L)

CaCl ₂ (anhydrous)	0.20000
Fe(NO ₃) ₃ ·9H ₂ O	0.00010
MgSO ₄ (anhydrous)	0.09770
KCl	0.40000
NaHCO ₃	1.50000
NaCl	6.40000
NaH ₂ PO ₄ ·H ₂ O	0.12500

Amino Acids (g/L)

L-Arginine·HCl	0.08400
L-Cystine·2HCl	0.06260
L-Glutamine	0.58400
Glycine	0.03000
L-Histidine·HCl·H ₂ O	0.04200
L-Isoleucine	0.10500
L-Leucine	0.10500
L-Lysine·HCl	0.14600
L-Methionine	0.03000
L-Phenylalanine	0.06600
L-Serine	0.04200
L-Threonine	0.09500
L-Tryptophan	0.01600
L-Tyrosine·2Na·2H ₂ O	0.10379



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L-Valine	0.09400
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Vitamins (g/L)

Choline Chloride	0.00400
Folic Acid	0.00400
myo-Inositol	0.00720
Nicotinamide	0.00400
D-Pantothenic Acid	0.00400 (hemicalcium)
Pyridoxine-HCl	0.00400
Riboflavin	0.00040
Thiamine-HCl	0.00400

Others (g/L)

D-Glucose	4.50000
Phenol Red, Sodium Salt	0.01500
Sodium Pyruvate	0.22000