

★ Storage

Store at 2 -8°C.

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- DMEM

ALL PRODUCTS SOLD BY GenDEPOT ARE INTENDED FOR RESEARCH USE ONLY UNLESS OTHERWISE INDICATED. THIS PRODUCT IS NOT INTENDED FOR DIAGNOSTIC OR DRUG PURPOSE

★ Shipping Condition

Ship at ambient

★ Introduction

Dulbecco's Modified Eagle's Medium (DMEM) is a modification of Basal Medium Eagle (BME), containing four-fold concentrations of the amino acids and vitamins found in BME, as well as additional supplementary components. The original formulation of DMEM contained 1000 mg/L of glucose, but has since been raised in some modifications to 4500 mg/L, giving the terms "Low Glucose" and "High Glucose". Several other modifications over the years, in addition to the alternative glucose levels, have broadened the spectrum of cell types supported by DMEM.

★ Formulation

Amino Acids	mg/L
Glycine (C ₂ H ₅ NO ₂)	30.00
L-Arginine, Hydrochloride(C ₆ H ₁₄ N ₄ O ₂ .HCl)	84.00
L-Cystine, Dihydrochloride(C ₆ H ₁₂ N ₂ O ₂ S ₂ .2HCl)	63.00
L-Glutamine(C ₅ H ₁₀ N ₂ O ₃)	584.00
L-Histidine(C ₆ H ₉ N ₃ O ₂ .HCl.H ₂ O)	42.00
L-Isoleucine(C ₆ H ₁₃ NO ₂)	105.00
L-Leucine(C ₆ H ₁₃ NO ₂)	105.00
L-Lysine, Hydrochloride(C ₆ H ₁₄ N ₂ O ₂ .HCl)	146.00
L-Methionine(C ₅ H ₁₁ NO ₂ S)	30.00
L-Phenylalanine(C ₉ H ₉ NO ₂)	66.00
L-Serine(C ₃ H ₇ NO ₂)	42.00
L-Threonine(C ₄ H ₉ NO ₃)	95.00
L-Tryptophan(C ₁₁ H ₁₂ N ₂ O ₂)	16.00
L-Tyrosine, Disodium,Dihydrate(C ₉ H ₉ NO ₃ Na ₂ .2H ₂ O)	104.00
L-Valine(C ₅ H ₁₁ NO ₂)	94.00

Inorganic Salts	mg/L
Calcium Chloride, Anhydrous (CaCl ₂)	200.00
Ferric Nitrate, Nonahydrate(Fe(NO ₃) ₃ .9H ₂ O)	0.10
Magnesium Sulfate, Anhydrous(MgSO ₄)	97.67
Potassium Chloride(KCl)	400.00
Sodium Bicarbonate(NaHCO ₃)	3700.00
Sodium Chloride(NaCl)	6400.00
Sodium Phosphate, Monobasic(NaH ₂ PO ₄ .H ₂ O))	125.00

Vitamins	mg/L
Choline Chloride(C ₅ H ₁₄ ClNO)	4.00
D-Calcium Pantothenate(C ₁₈ H ₃₂ CaN ₂ O ₁₀)	4.00
Folic Acid(C ₁₉ H ₁₉ N ₇ O ₆)	4.00
Myo-Inositol(C ₆ H ₁₂ O ₆)	7.20
Niacinamide(C ₆ H ₆ N ₂ O)	4.00
Pyridoxine, Hydrochloride(C ₈ H ₁₁ NO ₃ .HCl)	4.00
Riboflavin(C ₁₇ H ₂₀ N ₄ O ₆)	0.40
Thiamine, Hydrochloride(C ₁₂ H ₁₇ ClN ₄ OS.HCl)	4.00

Other Components	mg/L
D-Glucose(C ₆ H ₁₂ O ₆)	1000.00
HEPES(C ₈ H ₁₈ N ₂ O ₄ S)	
Phenol Red, Sodium Salt(C ₁₉ H ₁₃ NaO ₅ S)	15.00
Sodium Pyruvate(C ₃ H ₃ NaO ₃)	110.00