

Formulations

DULBECCO'S MODIFIED EAGLE'S MEDIUM (DMEM) WITH HIGH GLUCOSE

COMPONENTS	Cat.# 112-014 mg / L	Cat.# 112-034 mg / L
Inorganic Salts		
CaCl ₂ 2H ₂ O	264.92	264.92
Fe(NO ₃) ₃ 9H ₂ O	0.10	0.10
KCl	400.00	400.00
MgSO ₄ (anhydrous)	97.67	97.67
NaCl	6400.00	6400.00
NaHCO ₃	3700.00	3700.00
NaH ₂ PO ₄ (anhydrous)	108.69	108.69
Other Components		
D-Glucose	4500.00	4500.00
Phenol red•Na	15.00	15.00
Sodium pyruvate	110.00	
Amino Acids		
L-Arginine•HCl	84.00	84.00
L-Cystine•2HCl	62.58	62.58
L-Glutamine	584.00	584.00*
Glycine	30.00	30.00
L-Histidine•HCl•H ₂ O	42.00	42.00
L-Isoleucine	104.80	104.80
L-Leucine	104.80	104.80
L-Lysine•HCl	146.20	146.20
L-Methionine	30.00	30.00
L-Phenylalanine	66.00	66.00
L-Serine	42.00	42.00
L-Threonine	95.20	95.20
L-Tryptophan	16.00	16.00
L-Tyrosine•2Na•2H ₂ O	103.79	103.79
L-Valine	93.60	93.60
Vitamins		
D-Ca pantothenate	4.00	4.00
Choline chloride	4.00	4.00
Folic acid	4.00	4.00
i-Inositol	7.00	7.00

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Nicotinamide	4.00	4.00
Pyridoxal·HCl	4.00	4.00
Riboflavin	0.40	0.40
Thiamine·HCl	4.00	4.00

*Omitted from preparation. Add L-glutamine (Cat.# 118-084-060) to a final concentration of 4mM prior to use.

References: Morton, H.J., (1970) In Vitro, **6**:89-108

Dulbecco, R., Freeman, G., (1959) Virology, **8**:396-397 Smith, J.D., et al, (1960) Virology, **12**:185-196