

Product Information

Dulbecco's Modified Eagle Medium (DMEM) High Glucose (4.5 g/l)

Product	Volume	Cat. No.
DMEM High Glucose (4.5 g/l), w/o L-Glutamine	500 ml	E0500-130
DMEM High Glucose (4.5 g/l), w/o L-Glutamine, with Sodium Pyruvate	500 ml	E0500-140
DMEM High Glucose (4.5 g/l), w/o L-Glutamine, w/o Phenol Red	500 ml	E0500-150
DMEM High Glucose (4.5 g/l), with L-Glutamine	500 ml	E0500-160
DMEM High Glucose (4.5 g/l), with L-Glutamine, with Sodium Pyruvate	500 ml	E0500-170
DMEM High Glucose (4.5 g/l), with Stable Glutamine, with Sodium Pyruvate	500 ml	E0500-180
DMEM High Glucose (4.5 g/l), with Stable Glutamine, with 25 mM HEPES	500 ml	E0500-190

Product Description

CO ₂ concentration, optimum	8.5%
pH	7.0 – 7.5
Osmolality	280 – 350 mOsm/kg
Colour and Appearance	Clear red orange solution
Endotoxin	<1 EU/ml (<0.1 ng/ml)
Cell Culture	Tested
Sterility	Tested
Storage	+2°to +8°C protected from light

Formulation

Components	Concentration mg/l	Molecular Weight g/mol	Concentration mM
Amino Acids			
L-Alanyl-L-Glutamine (<i>only in E0500-180, E0500-190</i>)	862.00	217.22	3.97
L-Arginine HCl	84.00	210.66	0.40
L-Cystine 2HCl	48.00	240.30	0.20
L-Glutamine (<i>only in E0500-160, E0500-170</i>)	584.00	146.15	4.00
Glycine	30.00	75.07	0.40
L-Histidine HCl H ₂ O	42.00	209.63	0.20
L-Isoleucine	105.00	131.17	0.80
L-Leucine	105.00	131.17	0.80
L-Lysine HCl	146.00	182.65	0.80
L-Methionine	30.00	149.21	0.20
L-Phenylalanine	66.00	165.19	0.40
L-Serine	42.00	105.09	0.40
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Amino Acids				
L-Threonine	95.00	119.12	0.80	
L-Tryptophan	16.00	204.23	0.0783	
L-Tyrosine 2 Na	89.47	225.15	0.40	
L-Valine	94.00	117.15	0.80	
Vitamins				
Choline chloride	4.00	139.62	0.0286	
D-Calcium Pantothenate	4.00	476.53	0.0084	
Folic Acid	4.00	441.40	0.0091	
<i>myo</i> -Inositol	7.20	180.16	0.0400	
Nicotinamide	4.00	122.12	0.0328	
Pyridoxal HCl	4.00	203.62	0.0196	
Riboflavin	0.40	376.36	0.0011	
Thiamine HCl	4.00	337.27	0.0119	
Inorganic Salts				
Calcium Chloride 2 H ₂ O	265.00	147.01	1.80	
Iron(III) Nitrate 9 H ₂ O	0.10	404.00	0.00025	
Magnesium Sulfate	97.67	120.37	0.81	
Potassium Chloride	400.00	74.55	5.37	
Sodium Bicarbonate	3700.00	84.01	44.04	
Sodium Chloride	6400.00	58.44	109.51	
Sodium Phosphate Monobasic Anhydrous	109.00	119.98	0.91	
Other Components				
D-Glucose	4500.00	180.16	24.98	
HEPES (<i>only in E0500-190</i>)	5958.00	238.30	25.00	
Phenol Red Sodium Salt (<i>not in E0500-150</i>)	15.90	376.36	0.04	
Sodium Pyruvate (<i>only in E0500-140, E0500-170, E0500-180</i>)	110.00	110.04	1.00	

Precautions and Disclaimer

This product is for research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.