

Product Information

Dulbecco's Modified Eagle Medium (DMEM) High Glucose (4.5 g/l), with L-Glutamine, with Sodium Pyruvate
 Cat. No.: DMEM-HPA (500 ml)

Product Specifications

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-Arginine HCl	84.00	210.66	0.40
L-Cystine 2HCl	48.00	240.30	0.20
L-Glutamine	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
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

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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
Phenol Red Sodium Salt	15.90	376.36	0.04
Sodium Pyruvate	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.

Help needed?

If you have any further questions regarding this product please do not hesitate to contact our cell culture experts:

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