

## Product Information

Dulbecco's Modified Eagle Medium (DMEM) High Glucose (4.5 g/l), with Stable Glutamine, with 25 mM HEPES  
 Cat. No.: DMEM-HHSTA (500 ml)

### Product Specifications

CO <sub>2</sub> 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
<b>Amino Acids</b>			
L-Alanyl-L-Glutamine	862.00	217.22	3.97
L-Arginine HCl	84.00	210.66	0.40
L-Cystine 2HCl	48.00	240.30	0.20
Glycine	30.00	75.07	0.40
L-Histidine HCl H <sub>2</sub> 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
<b>Vitamins</b>			
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
<b>Inorganic Salts</b>			
Calcium Chloride 2 H <sub>2</sub> O	265.00	147.01	1.80
Iron(III) Nitrate 9 H <sub>2</sub> 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
<b>Other Components</b>			
D-Glucose	4500.00	180.16	24.98
HEPES	5958.00	238.30	25.00
Phenol Red Sodium Salt	15.90	376.36	0.04

### 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:

Email: [techservice@capricorn-scientific.com](mailto:techservice@capricorn-scientific.com)

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