

## Product Information

DMEM/Ham's F-12  
with L-Glutamine, with 15 mM HEPES  
sterile-filtered  
Cat. No. DMEM-12-HA (500 ml)

## Product Specifications

Appearance	Clear red orange solution
CO <sub>2</sub> concentration, optimum	5.5 %
Storage and shelf life	Store at +2°C to +8°C protected from light. Once opened, store at 4° C and use within 6-8 weeks.
Shipping conditions	Ambient

## Formulation

Components	Concentration mg/L
<b>Amino Acids:</b>	
Glycine	18.75
L-Alanine	4.45
L-Arginine HCl	147.50
L-Asparagine H <sub>2</sub> O	7.50
L-Aspartic Acid	6.65
L-Cysteine HCl H <sub>2</sub> O	17.56
L-Cystine 2 HCl	31.29
L-Glutamic Acid	7.35
L-Glutamine	365.00
L-Histidine HCl H <sub>2</sub> O	31.48
L-Isoleucine	54.47
L-Leucine	59.05
L-Lysine HCl	91.25
L-Methionine	17.24
L-Phenylalanine	35.48
L-Proline	17.25
L-Serine	26.25
L-Threonine	53.45
L-Tryptophan	9.02
L-Tyrosine 2 Na 2 H <sub>2</sub> O	55.79
L-Valine	52.85
<b>Vitamins:</b>	
D-Biotin	0.0035
Choline Chloride	8.98
D-Calcium Pantothenate	2.24
Folic Acid	2.66
myo-Inositol	12.60
Nicotinamide	2.02

Components	Concentration mg/L
Pyridoxine HCl	0.031
Pyridoxal HCl	2.00
Riboflavin	0.219
Thiamine HCl	2.17
Vitamin B <sub>12</sub>	0.68
<b>Inorganic Salts:</b>	
CaCl <sub>2</sub> 2 H <sub>2</sub> O	154.50
CuSO <sub>4</sub> 5 H <sub>2</sub> O	0.0013
Fe(NO <sub>3</sub> ) <sub>3</sub> 9 H <sub>2</sub> O	0.05
FeSO <sub>4</sub> 7 H <sub>2</sub> O	0.417
KCl	311.80
MgCl <sub>2</sub> 6 H <sub>2</sub> O	61.20
MgSO <sub>4</sub> 7 H <sub>2</sub> O	100.00
NaCl	6996.00
NaHCO <sub>3</sub>	1200.00
Na <sub>2</sub> HPO <sub>4</sub>	71.02
NaH <sub>2</sub> PO <sub>4</sub> 2 H <sub>2</sub> O	70.87
ZnSO <sub>4</sub> 7 H <sub>2</sub> O	0.432
<b>Other Components:</b>	
D-Glucose	3151.00
Hypoxanthine	2.40
HEPES	3574.50
Linoleic Acid	0.042
Lipoic Acid	0.105
Phenol Red Sodium Salt	8.63
Putrescine 2 HCl	0.081
Sodium Pyruvate	55.00
Thymidine	0.365

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Cat. No. DMEM-12-HA (500 ml)

## Precautions and Disclaimer

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This product is for research and further manufacturing use only.

## Help Needed?

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If you have any further questions regarding this product, please do not hesitate to contact our cell culture experts by email ([techservice@capricorn-scientific.com](mailto:techservice@capricorn-scientific.com)) or phone (+49 6424 944640).