

## DMEM/F12

### Description

This medium supports the growth of almost all cell lines. For example, it is used for pancreas cells, Sertoli cells or to culture cells, which are used for human protein production. It combines the advantages of both media DMEM (high concentration of amino acids and vitamins) and Ham's F12 (higher concentration of zinc sulphate, putrescine and linoleic acid).

### Composition

	Components	mg/L
<b>Inorganic Salts</b>	Calcium chloride x 2H <sub>2</sub> O	154.45
	Iron(III)-nitrate x 9H <sub>2</sub> O	0.05
	Iron(II)-sulfate x 7H <sub>2</sub> O	0.42
	Potassium chloride	311.83
	Copper(II)-sulfate x 5H <sub>2</sub> O	0.001
	Magnesium chloride	28.57
	Magnesium sulfate	48.85
	Sodium chloride	6,999.50
	Sodium dihydrogen phosphate	54.35
	di-Sodium hydrogen phosphate	70.98
Zinc sulfate x 7H <sub>2</sub> O	0.43	
<b>Other Components</b>	D(+)-Glucose anhydrous	3,151.0
	Hypoxanthine	2.04
	Linoleic acid	0.04
	DL-68-Lipoic acid	0.103
	Sodium pyruvate	110.00
	Phenol red	8.10
	Putrescin x 2HCl	0.081
Thymidine	0.36	
<b>Amino acids</b>	L-Alanine	4.45
	L-Arginine x HCl	147.35
	L-Asparagine x H <sub>2</sub> O	7.50
	L-Aspartic acid	6.65
	L-Cystine x 2HCl	31.29
	L-Cysteine x HCl x H <sub>2</sub> O	17.56
	L-Glutamine	365.00
	L-Glutamic acid	7.35
	Glycine	18.75
	L-Histidine x HCl x H <sub>2</sub> O	31.48
	L-Isoleucine	54.37
	L-Leucine	58.96
	L-Lysine x HCl	91.37
	L-Methionine	17.24
	L-Phenylalanine	35.48
	L-Proline	17.27
	L-Serine	26.25
L-Threonine	53.55	
L-Tryptophan	9.02	
L-Tyrosine x 2Na x 2H <sub>2</sub> O	55.81	
L-Valine	53.00	
<b>Vitamins</b>	D-(+)-Biotine	0.004
	D-Calcium pantothenate	2.12
	Cholin chloride	8.98
	Folic acid	2.66
	myo-Inositol	12.51
	Nicotinamide	2.02
	Pyridoxine x HCl	2.03
	Riboflavin	0.22
	Thiamine x HCl	2.17
	Vitamine B12	0.68

(1) usually on stock, (2) minimum order 10 l, (3) available on request

## DMEM/F12

### Liquid Media

DMEM/F12: (1:1)<sup>(1)</sup>  
without L-Glutamine  
with 1.2 g/L NaHCO<sub>3</sub>      500 ml P04-41450

DMEM/F12 (1:1)<sup>(1)</sup>  
with L-Glutamine  
with 1.2 g/L NaHCO<sub>3</sub>      500 ml P04-41500

DMEM/F12 (1:1)<sup>(1)</sup>  
with stab. Glutamine  
with 1.2 g/L NaHCO<sub>3</sub>      500 ml P04-41150

DMEM/F12 (1:1)<sup>(1)</sup>  
without L-Glutamine  
with 15 mM Hepes  
with 1.2 g/L NaHCO<sub>3</sub>      500 ml P04-41550

DMEM/F12 (1:1)<sup>(1)</sup>  
with L-Glutamine  
with 15 mM Hepes  
with 1.2 g/L NaHCO<sub>3</sub>      500 ml P04-41250

DMEM/F12 (1:1)<sup>(2)</sup>  
with L-Glutamine  
with 25 mM Hepes  
with 1.2 g/L NaHCO<sub>3</sub>      500 ml P04-41252

### Special Media

DMEM/F12 (1:1)<sup>(2)</sup>  
without L-Glutamine  
without Glucose  
with 1.2 g/L NaHCO<sub>3</sub>      500 ml P04-41151

DMEM/F12 (1:1)<sup>(2)</sup>  
with L-Glutamine  
without Phenol red  
with 1.2 g/L NaHCO<sub>3</sub>      500 ml P04-41650

DMEM/F12 (1:1)<sup>(2)</sup>  
with stab. Glutamine  
with 15 mM Hepes  
without Calcium chloride  
with 1.2 g/L NaHCO<sub>3</sub>      500 ml P04-41251

### Powder Media

DMEM/F12 (1:1)<sup>(1)</sup>  
without L-Glutamine      10 L      P03-6010  
without NaHCO<sub>3</sub>      50 L      P03-6050

DMEM/F12 (1:1)<sup>(1)</sup>  
with L-Glutamine      10 L      P03-1110  
without NaHCO<sub>3</sub>      50 L      P03-1150

DMEM/F12 (1:1)<sup>(1)</sup>  
with L-Glutamine  
with 15 mM Hepes      10 L      P03-6110  
without NaHCO<sub>3</sub>      50 L      P03-6150

DMEM/F12 (1:1)<sup>(1)</sup>  
with L-Glutamine  
with 25 mM Hepes      10 L      P03-1210  
without NaHCO<sub>3</sub>      50 L      P03-1250

(1) usually on stock, (2) minimum order 10 l, (3) available on request