

## Ham's F10 Medium

### Description

Ham's F10 is an alternative to Ham's F12 and it was used primarily to culture CHO-cells. Today, Ham's F10 can be used with or without FBS for many different cell cultures. It is used for example for primary cells of rat and chicken, but also for human diploid cells.

### Liquid Media

Ham's F10 Medium <sup>(2)</sup> without L-Glutamine with 1.2 g/L NaHCO <sub>3</sub>	500 ml	P04-12050
Ham's F10 Medium <sub>(1)</sub> with L-Glutamine with 1.2 g/L NaHCO <sub>3</sub>	500 ml	P04-12500
Ham's F10 Medium <sub>(2)</sub> with stab. Glutamine with 1.2 g/L NaHCO <sub>3</sub>	500 ml	P04-13500
Ham's F10 Medium <sub>(2)</sub> with L-Glutamine with 25 mM Hepes with 1.2 g/L NaHCO <sub>3</sub>	500 ml	P04-13050
Ham's F10 Medium <sub>(2)</sub> without L-Glutamine without Phenol red with 1.2 g/L NaHCO <sub>3</sub>	500 ml	P04-12049

### Powder Media

Ham's F-10 Medium <sub>(1)</sub> without L-Glutamine	10 L	P03-5010
without NaHCO <sub>3</sub>	50 L	P03-5050
Ham's F-10 Medium <sub>(1)</sub> with L-Glutamine	10 L	P03-3910
without NaHCO <sub>3</sub>	50 L	P03-3950
Ham's F-10 Medium <sub>(1)</sub> with L-Glutamine	10 L	P03-4010
with 25 mM Hepes	10 L	P03-4010
without NaHCO <sub>3</sub>	50 L	P03-4050

### Composition

	Components	mg/L
<b>Inorganic Salts</b>	Calcium chloride x 2H <sub>2</sub> O	44.09
	Copper(II) sulfate x 5H <sub>2</sub> O	0.003
	Iron(II) sulfate x 7H <sub>2</sub> O	0.834
	Magnesium sulfate dried	106.06
	Potassium chloride	285.00
	Potassium dihydrogen phosphate	83.00
	Sodium chloride	7400.00
	di-Sodium hydrogen phosphate	153.70
	Zinc sulfate x 7H <sub>2</sub> O	0.029
	<b>Other Components</b>	D(+)-Glucose anhydrous
Hypoxanthine		4.08
DL- $\alpha$ -Lipoic acid		0.21
Hepes		5958.00
Phenol red		1.20
Sodium pyruvate		110.00
2'-Deoxythymidine		0.73
<b>Amino acids</b>	L-Alanine	8.91
	L-Arginine x HCl	211.00
	L-Asparagine x H <sub>2</sub> O	15.00
	L-Aspartic acid	13.30
	L-Cysteine x HCl x H <sub>2</sub> O	35.12
	L-Glutamine	146.20
	L-Glutamic acid	14.70
	Glycine	7.51
	L-Histidine x HCl x H <sub>2</sub> O	21.00
	L-Isoleucine	2.60
	L-Leucine	13.10
	L-Lysine x HCl	29.30
	L-Methionine	4.48
	L-Phenylalanine	4.96
	L-Proline	11.50
	L-Serine	10.50
L-Threonine	3.57	
L-Tryptophan	0.60	
L-Tyrosine	1.81	
L-Valine	3.50	
<b>Vitamins</b>	D(+)-Biotin	0.024
	D-Calcium pantothenate	0.715
	Choline chloride	0.698
	Folic acid	1.32
	myo-Inositol	0.541
	Nicotinamide	0.615
	Pyridoxine x HCl	0.21
	Riboflavin	0.376
	Thiamine x HCl	1.01
	Vitamin B12	1.36

When 5,958.00 mg/L HEPES is included there is only 6,900.00 mg/L sodium chloride.

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