



Ham's F10 w/o L-Glutamine

CAT N° : ISL0145-500

Theoretical pH : 7.3 ± 0.3

Osmolality : 285 mOsm/kg ± 10 %

Colour : pink – orange, clear solution

Storage conditions : +2°C to +8°C

Shelf life : 24 months

Sterility tests :

- bacteria aerobic-anaerobic
- bacteria strictly anaerobic
- fungi / yeast

Endotoxin : < 1 EU/ml

Cell growth test :

Medium tested for the ability to support CHO-K1 or HeLa cell growth.

Composition : meet special formulation sheet

Recommended use :

- Respect storage conditions of the product
- Do not use the product after its expiry date
- Store product in an area protected from light (not necessary for saline solutions).
- Manipulate the product in aseptic conditions (e.g. : under laminar air flow)
- Wear clothes adapted to the manipulation of the product to avoid contamination (e.g. : gloves, mask, hygiene cap, overall...)

The product is intended to be used in vitro, in laboratory only. Do not use it in therapy, human or veterinary applications.

Application :

Ham's medium were originally developed for the clonal growth of Chinese Hamster Ovary (CHO) cells, HeLa cells and mouse L-cells, with or without serum supplementation depending the cells type. Ham's F10 is a medium of choice for supporting the growth of human diploid cells, white blood cells for chromosomal analysis, primary explants of rat, rabbit and chicken tissues.

Utilisation :

Supplements, such as antibiotics, should be added as sterile supplements to the medium.

Add 5 ml/l of L-Glutamine 200mM before using this medium.

Storage conditions and shelf-life of supplemented product will be affected by the nature of the supplements. Sterile serum should not be refiltered before or after being added to sterile medium because growth promoting capacity may be reduced upon re-filtration.

Indications of deterioration :

Medium should be clear and free of particulate and flocculent material. Do not use if medium is cloudy or contains precipitate.

Other evidence of deterioration may include colour change or degradation of physical or performance characteristics.

For Research use only

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CAT N° : ISL0145-500 HAM'S F10 (F10 Nutrient Medium) - Formulation

	Ham's F10 (F10 Nutrient Medium)	ISL0130 Liquid mg/l	ISL0140 Liquid mg/l	ISL0145 Liquid mg/l	ISP0146 Powder mg/l
Amino Acids	Glycine	7,51	7,51	7,51	7,51
	L-Alanine	9	9	9	9
	L-Arginine Monohydrochloride	211	211	211	211
	L-Asparagine Monohydrate	15,01	15,01	15,01	15,01
	L-Aspartic Acid	13,3	13,3	13,3	13,3
	L-Cysteine Monohydrochloride Monohydrate	35	35	35	35
	L-Glutamic Acid	14,7	14,7	14,7	14,7
	L-Glutamine	146	146	/	146
	L-Histidine Monohydrochloride Monohydrate	21	21	21	21
	L-Isoleucine	2,6	2,6	2,6	2,6
	L-Leucine	13,1	13,1	13,1	13,1
	L-Lysine Monohydrochloride	29,3	29,3	29,3	29,3
	L-Methionine	4,48	4,48	4,48	4,48
	L-Phenylalanine	4,96	4,96	4,96	4,96
	L-Proline	11,5	11,5	11,5	11,5
	L-Serine	10,5	10,5	10,5	10,5
	L-Threonine	3,57	3,57	3,57	3,57
	L-Tryptophan	0,6	0,6	0,6	0,6
L-Tyrosine Disodium Salt Dihydrate	2,61	2,61	2,61	2,61	
L-Valine	3,5	3,5	3,5	3,5	
Inorganic Salts	Calcium Chloride Dihydrate	44,1	44,1	44,1	44,1
	Cupric Sulfate Pentahydrate	0,0025	0,0025	0,0025	0,0025
	Ferrous Sulfate Heptahydrate	0,834	0,834	0,834	0,834
	Magnesium Sulfate Anhydrous	74,64	74,64	74,64	74,64
	Potassium Chloride	285	285	285	285
	Sodium Phosphate Monobasic Anhydrous	83	83	83	83
	Sodium Bicarbonate	1200	1200	1200	/
	Sodium Chloride	6800	7400	7400	7400
	Sodium Phosphate Dibasic Anhydrous	153,7	153,7	153,7	153,7
Zinc Sulfate Heptahydrate	0,0288	0,0288	0,0288	0,0288	
Vitamins	Choline Chloride	0,698	0,698	0,698	0,698
	D-Biotin	0,024	0,024	0,024	0,024
	D-Ca Pantothenate	0,715	0,715	0,715	0,715
	Folic Acid	1,32	1,32	1,32	1,32
	Myo-Inositol	0,541	0,541	0,541	0,541
	Nicotinamide	0,615	0,615	0,615	0,615
	Pyridoxine Hydrochloride	0,206	0,206	0,206	0,206
	Riboflavin	0,376	0,376	0,376	0,376
	Thiamine Hydrochloride	1	1	1	1
Vitamin B12	1,36	1,36	1,36	1,36	
O.C.*	D-Glucose Anhydrous	1100	1100	1100	1100
	Hepes Free Acid	5958	/	/	/
	Hypoxanthine	4,08	4,08	4,08	4,08
	Phenol Red Solution Salt	1,3	1,3	1,3	1,3
	Sodium Pyruvate	110	110	110	110
	Thioctic Acid	0,21	0,21	0,21	0,21
	Thymidine	0,73	0,73	0,73	0,73

* Other components

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