

## **Ham's F12 w/o L-Glutamine**

**CAT N°** : ISL0136-500

**Theoretical pH** :  $7.3 \pm 0.3$

**Osmolality** : 297 mOsm/kg  $\pm 10\%$

**Colour** : salmon - pink, clear solution

**Storage conditions** : +2°C to +8°C

**Shelf life** : 24 months

**Sterility tests** :

- Bacteria in aerobic and anaerobic conditions
- Fungi and yeasts

**Endotoxin** : < 1 EU/ml

**Composition** : Displayed on web site; also available on request

**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 F12 was originally developed for the serum-free clonal growth of Chinese Hamster Ovary (CHO) cells, lung cells and mouse L-cells. It is frequently used with dialysed serum, hormones, selenium and other supplements for serum-free cultures. It is the medium of choice for supporting the growth of cells of rodent origin, particularly rabbit and rat and has proved to be an excellent cloning medium for the culture of myeloma and hybrid cells.

**Utilisation** :

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

Add 5ml/l of L-Glutamine 100X, 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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CAS Number	Components	Quantity in g/l
10035-04-8	Calcium Chloride Dihydrate	0.04410000
7791-18-6	Magnesium Chloride Hexahydrate	0.12300000
7758-99-8	Cupric Sulfate Pentahydrate	0.00000250
7782-63-0	Ferrous Sulfate Heptahydrate	0.00083400
7447-40-7	Potassium Chloride	0.22400000
7647-14-5	Sodium Chloride	7.59900000
7558-79-4	Sodium Phosphate Dibasic Anhydrous	0.14204000
7446-20-0	Zinc Sulfate Heptahydrate	0.00086300
50-99-7	D-Glucose Anhydrous	1.80200000
56-40-6	Glycine	0.00751000
56-41-7	L-Alanine	0.00900000
1119-34-2	L-Arginine Monohydrochloride	0.21100000
5794-13-8	L-Asparagine Monohydrate	0.01501000
56-84-8	L-Aspartic acid	0.01330000
7048-04-6	L-Cysteine Monohydrochloride Monohydrate	0.03500000
56-86-0	L-Glutamic Acid	0.01470000
5934-29-2	L-Histidine Monohydrochloride Monohydrate	0.02096000
73-32-5	L-Isoleucine	0.00394000
61-90-5	L-Leucine	0.01310000
657-27-2	L-Lysine Monohydrochloride	0.03650000
63-68-3	L-Methionine	0.00448000
63-91-2	L-Phenylalanine	0.00496000
147-85-3	L-Proline	0.03450000
56-45-1	L-Serine	0.01050000
72-19-5	L-Threonine	0.01190000
73-22-3	L-Tryptophan	0.00204000
69847-45-6	L-Tyrosine Disodium Salt Dihydrate	0.00778000
72-18-4	L-Valine	0.01170000
67-48-1	Choline Chloride	0.01396000
58-85-5	D-Biotin	0.00000730
137-08-6	D-Ca Pantothenate	0.00048000
59-30-3	Folic Acid	0.00132000
87-89-8	Myo-Inositol	0.01800000
98-92-0	Nicotinamide (Nicotinic acid amide)	0.00003700
58-56-0	Pyridoxine Hydrochloride	0.00006200
83-88-5	Riboflavin	0.00003800
67-03-8	Thiamine Hydrochloride	0.00034000
68-19-9	Vitamine B12	0.00136000
68-94-0	Hypoxanthine	0.00408000
60-33-3	Linoleic acid	0.00008400
34487-61-1	Phenol Red Sodium Salt	0.00130000
333-93-7	Putrescine+2HCL	0.00016100
113-24-6	Sodium Pyruvate	0.11000000
1077-28-7	Thioctic Acid	0.00021000
50-89-5	Thymidine	0.00073000

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CAS Number	Components	Quantity in g/l
144-55-8	Sodium Bicarbonate	1.17600000
WATER		988.26811120

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