

DMEM Ham's F12 w/ Stable Glutamine w/ 15mM Hepes

CAT N° : L0092

Theoretical pH : 7.0 ± 0.3

Osmolality : 299 mOsm/kg $\pm 10 \%$

Colour : Clear red orange solution

Storage conditions : +2°C to +8°C in the dark

Shelf life : 24 months

Sterility tests :

- Bacteria in aerobic and anaerobic conditions
- Fungi and yeasts

Endotoxin : < 1 EU/ml

Cell growth test :

Medium tested for the ability to support Hela cell growth.

Composition : Displayed on website and in catalog; 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.

Description :

Studies to determine the nutritional requirements of many cells have been in progress since Eagle's first reports. The major essential nutrients were identified and work became focused on the media requirements of individual cell types. Many media designed for these purposes are now available. Among the first of these media, developed initially to study hormonal requirements of cells in culture, was a mixture of DMEM medium and Ham's F12 medium, known as DMEM Ham's F12.

The stable Glutamine prevents the intramolecular cyclization reaction associated with solutions of L-Glutamine. This derivative is therefore stable in solution and allows the formulation of cell culture media containing L-Glutamine that may be stored at 4°C for extended periods. The Stable Glutamine is metabolized within the cells to yield L-Glutamine plus a second amino acid. This result in more consistent delivery of L-Glutamine to your cells and avoid toxic build-up of ammonia in your cell cultures. This feature can be especially important for ammonia-sensitive cell lines.

Uses :

Supplements, such as antibiotics, should be added as sterile supplements to the medium. Storage conditions and shelf-life of supplemented product will be affected by the nature of the supplements.

Signs 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.

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CAS Number	Components	Quantity in g/l
10035-04-8	Calcium Chloride Dihydrate	0.15450000
7791-18-6	Magnesium Chloride Hexahydrate	0.06120000
7487-88-9	Magnesium Sulfate Anhydrous	0.04884000
7758-99-8	Cupric Sulfate Pentahydrate	0.00000130
7782-61-8	Ferric Nitrate Nonahydrate	0.00005000
7782-63-0	Ferrous Sulfate Heptahydrate	0.00041700
7447-40-7	Potassium Chloride	0.31180000
7647-14-5	Sodium Chloride	6.99600000
7558-79-4	Sodium Phosphate Dibasic Anhydrous	0.07102000
7558-80-7	Sodium Phosphate Monobasic Anhydrous	0.05430000
7446-20-0	Zinc Sulfate Heptahydrate	0.00043200
50-99-7	D-Glucose Anhydrous	3.15100000
56-40-6	Glycine	0.01875000
56-41-7	L-Alanine	0.00445000
39537-23-0	L-Alanyl-L-Glutamine	0.54200000
1119-34-2	L-Arginine Monohydrochloride	0.14750000
5794-13-8	L-Asparagine Monohydrate	0.00750000
56-84-8	L-Aspartic acid	0.00665000
7048-04-6	L-Cysteine Monohydrochloride Monohydrate	0.01756000
30925-07-6	L-Cystine Dihydrochloride	0.03129000
56-86-0	L-Glutamic Acid	0.00735000
5934-29-2	L-Histidine Monohydrochloride Monohydrate	0.03148000
73-32-5	L-Isoleucine	0.05447000
61-90-5	L-Leucine	0.05905000
657-27-2	L-Lysine Monohydrochloride	0.09125000
63-68-3	L-Methionine	0.01724000
63-91-2	L-Phenylalanine	0.03548000
147-85-3	L-Proline	0.01725000
56-45-1	L-Serine	0.02625000
72-19-5	L-Threonine	0.05345000
73-22-3	L-Tryptophan	0.00902000
69847-45-6	L-Tyrosine Disodium Salt Dihydrate	0.05579000
72-18-4	L-Valine	0.05285000
67-48-1	Choline Chloride	0.00898000
58-85-5	D-Biotin	0.00000350
137-08-6	D-Ca Pantothenate	0.00224000
59-30-3	Folic Acid	0.00266000
87-89-8	Myo-Inositol	0.01260000
98-92-0	Nicotinamide (Nicotinic acid amide)	0.00202000
58-56-0	Pyridoxine Hydrochloride	0.00203100
83-88-5	Riboflavin	0.00021900
67-03-8	Thiamine Hydrochloride	0.00217000
68-19-9	Vitamine B12	0.00068000

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CAS Number	Components	Quantity in g/l
7365-45-9	Hepes Free Acid	3.57450000
68-94-0	Hypoxanthine	0.00210000
60-33-3	Linoleic acid	0.00004200
34487-61-1	Phenol Red Sodium Salt	0.00863000
333-93-7	Putrescine+2HCL	0.00008100
113-24-6	Sodium Pyruvate	0.05500000
1077-28-7	Thioctic Acid	0.00010500
50-89-5	Thymidine	0.00036500
144-55-8	Sodium Bicarbonate	1.20000000
WATER		982.98938320