



Product Specification

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Technical Information

Nutrient Mixture F-10 Ham

With 20mM HEPES buffer Without L-Glutamine and Sodium bicarbonate

Product Code: AL1196

Application:- Ham's Nutrient Mixtures were originally developed for single cell plating of near diploid Chinese hamster ovary (CHO) cells and mouse L-cells. Both F-10 and F-12 are formulated for use with or without serum, depending on the type of cells being cultured. Ham's Nutrient Mixture F10 was designed for clonal growth of CHO cells and chick embryo cells under serum free conditions. It is now widely used for culturing a variety of cells which include human diploid cells and white blood cells for chromosomal analysis and primary explants of rat, rabbit and chicken tissues.

AL1196 is Nutrient Mixture F-10 Ham with 20mM HEPES buffer. It does not contain L-glutamine and sodium bicarbonate. HEPES, a zwitterionic buffer having a pKa of 7.3 at 37°C prevents the initial rise in pH that tends to occur at the initiation of a culture and increases the buffering capacity of the medium. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

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Ingredients	mg/Litre
INORGANIC SALTS	
Calcium chloride dihydrate	44.100
Copper sulphate pentahydrate	0.0025
Ferric sulphate heptahydrate	0.834
Magnesium sulphate anhydrous	74.640
Potassium chloride	285.00
Potassium phosphate monobasic	83.000
Sodium chloride	7400.00
Sodium phosphate dibasic anhydrous	153.700
Zinc sulphate heptahydrate	0.0288
AMINO ACIDS	
Glycine	7.510
L-Alanine	8.910
L-Arginine hydrochloride	211.00
L-Asparagine monohydrate	15.010
L-Aspartic acid	13.300
L-Cysteine hydrochloride monohydrate	35.130
L-Glutamic Acid	14.700
L-Histidine hydrochloride monohydrate	23.000
L-Isoleucine	2.600
L-Leucine	13.100
L-Lysine hydrochloride	29.300
L-Methionine	4.480
L-Phenylalanine	4.960
L-Proline	11.500
L-Serine	10.500
L-Threonine	3.570
L-Tryptophan	0.600
L-Tyrosine disodium salt	2.610
L-Valine	3.500





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Biotin	0.024
Choline chloride	0.698
D-Ca-Pantothenate	0.715
Folic acid	1.320
Nicotinamide	0.615
Pyridoxine hydrochloride	0.206
Riboflavin	0.376
Thiamine hydrochloride	1.000
Vitamin B12	1.360
i-Inositol	0.541

OTHERS

D-Glucose	1100.00
HEPES Buffer	4766.400
Hypoxanthine sodium salt	4.080
Lipoic acid	0.210
Phenol red sodium salt	1.300
Sodium pyruvate	110.00
Thymidine	0.730

Methodology

1. Add 5.0ml of 200mM L-glutamine (TCL1012) for 1 litre of medium.

Material Required But Not Provided

L-Glutamine solution 200mM (TCL1012)

Quality control

Appearance:

Red coloured, clear solution

pH:

7.00-7.60

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

Cultural Response

The growth promotion capacity of the medium is assessed qualitatively by analyzing the cells for the morphology and quantitatively by estimating the cell counts.

Endotoxin Content

NMT 1EU/ml

Storage and Shelf Life

Store at 2-8°C away from bright light. Shelf life is 18 months. Use before expiry date given on the product label.





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Disclaimer:

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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