Ham's F12 Medium, w: 1.0 mM stable Glutamine, w: 1.0 mM Sodium pyruvate, w: 1.176 g/L NaHCO3

820600a

Ham's F-12 Medium, also known as Ham's F-12 Nutrient Mix, is a widely used basal medium designed specifically for cell culture. It has been extensively employed for serum-free, single-cell plating of Chinese Hamster Ovary (CHO) cells, lung cells, and mouse L cells. Additionally, Ham's F-12 is the medium of choice for a Clonal Toxicity Assay (CTA).

One of its notable advantages is the ability to support cell growth without the need for serum supplementation. This eliminates potential interference caused by serum components, ensuring consistent and reliable experimental results. By providing a serum-free culture environment, Ham's F-12 Medium offers researchers greater control over their investigations.

Another key feature of Ham's F-12 Medium is its suitability for single-cell plating. This makes it an excellent choice for a variety of cell lines, including CHO cells, lung cells, and mouse L cells. The medium's optimized nutrient composition facilitates efficient attachment and growth of individual cells, enabling the establishment of homogeneous cell cultures with improved reproducibility.

Moreover, Ham's F-12 Medium has gained recognition as the preferred medium for the Clonal Toxicity Assay (CTA). This assay plays a critical role in assessing the cytotoxic effects of substances on cells. By utilizing Ham's F-12 Medium in the CTA, researchers can accurately evaluate the impact of various compounds or treatments on individual cells, providing valuable insights into toxicological profiles.

Quality control

pH = 7.2 +/- 0.02 at 20-25°C.

Each lot has been tested for sterility and absence of mycoplasma and bacteria.

Maintenance

Keep refrigerated at +2°C to +8°C in the dark. Freezing and warming up to +37° C minimize the quality of the product.

Do not heat the medium to more than 37° C or use uncontrollable sources of heat (e.g., microwave appliances).

If only a part of the medium is to be used, remove this amount from the bottle and warm it up at room temperature.

Shelf life for any medium except for the basic medium is 8 weeks from the date of manufacture.

Composition

Components

mg/L

Inorganic Salts

Calcium chloride x 2H2O

44,00

Copper(II) sulfate x 5H2O

0,00

Iron (II) sulfate x 7H2O

0,83

Magnesium chloride x 6H2O

122,00

Potassium chloride

223,65

Sodium chloride

7599,00

di-Sodium hydrogen phosphate anhydrous

142,04

Zinc sulfate x 7H2O

0,86

Other Components

D(+)-Glucose anhydrous

1801,60

Hypoxanthine

4,08

Linoleic acid

0,08

DL-α-Lipoic acid

0,21

Cytion GmbH
Nikola-Tesla-Str. 3
69124 Heidelberg
Tel: +49 (0)6221 405780
info@cytion.com
cytion.com

Registered office Heidelberg
VAT ID: DE283292917
Local court Mannheim - HRB 714394
CEO / Geschäftsführer: Jonathan Steubing

Banking information
Sparkasse Heidelberg
IBAN: DE35 6725 0020 0009 2076 86
BIC: SOLADES1HDB

Phenol red
1,20
Putrescine x 2HCl
0,16
Sodium pyruvate
110,00
Thymidine
0,73
NaHCO3
1176,00
Amino Acids
L-Alanine
8,91
L-Arginine x HCl
210,70
L-Asparagine x H2O
15,01
L-Aspartic acid
13,31
L-Cysteine x HCl x H2O
35,12
L-Alanyl-L-Glutamine
217,30
L-Glutamic acid
14,71
Glycine
7,51
L-Histidine x HCl x H2O
20,96
L-Isoleucine
3,94
L-Leucine
13,12
L-Lysine x HCl
36,54
L-Methionine
4,48
L-Phenylalanine
4,96
L-Proline
34,53
L-Serine
10,51
L-Threonine
11,91
L-Tryptophan
2,04
L-Tyrosine
5,44
L-Valine
11,71
Vitamins
D(+)-Biotin
0,01
D-Calcium pantothenate
0,24
Choline chloride
13,96
Folic acid
1,32

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myo-Inositol
18,02
Nicotinamide
0,04
Pyridoxine x HCl
0,06
Riboflavin
0,04
Thiamine x HCl
0,34
Vitamin B12
1,36

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