



Product Specification

cdhfinechemical.com

Technical Information

Dulbecco's Modified Eagle Medium/ Nutrient Mixture F-12 Ham (DMEM/F12, 1:1 Mixture)

With 25mM L-Glutamine, 15mM HEPES buffer, 0.5mM Sodium pyruvate and 1.2gms per litre Sodium bicarbonate 1X Liquid Cell Culture Medium

Product Code: AL1140S

Application:- Dulbecco's Modified Eagle Medium/Nutrient Mixture F-12 Ham (DMEM/F-12, 1:1 mixture) was originally formulated for rat neuroblastoma cells and MDCK cells. The mixture is extremely nutritious and supports growth of a wide variety of cells including certain epithelial, endothelial and granulosa cells.

AL1140S is DMEM/Nutrient Mixture F-12 Ham with 25mM L-Glutamine, 15mM HEPES buffer, 0.5mM Sodium pyruvate and 1.2gms per litre 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.

Ingredients	mg / Litre
INORGANIC SALTS	
Calcium chloride dihydrate	154.500
Copper sulphate pentahydrate	0.0013
Disodium hydrogen phosphate anhydrous	71.020
Ferric nitrate nonahydrate	0.050
Ferrous sulphate heptahydrate	0.417
Magnesium chloride hexahydrate	61.200
Potassium chloride	311.800
Sodium bicarbonate	1200.000
Sodium chloride	6996.000
Sodium dihydrogen phosphate	54.300
Zinc sulphate heptahydrate	0.432
AMINO ACIDS	
Glycine	18.760
L-Alanine	4.450
L-Arginine hydrochloride	147.500
L-Asparagine monohydrate	7.500
L-Aspartic acid	6.650
L-Cysteine dihydrochloride	17.560
L-Cystine hydrochloride monohydrate	31.290
L-Glutamic acid	7.350
L-Glutamine	365.000
L-Histidine hydrochloride monohydrate	31.480
L-Isoleucine	54.470
L-Leucine	59.050
L-Lysine hydrochloride	91.250





Product Specification

cdhfinechemical.com

L-Methionine	17.240		
L-Phenylalanine	35.480		
L-Proline	17.250		
L-Serine	26.250		
L-Threonine	53.450		
L-Tryptophan	9.020		
L-Tyrosine disodium salt	48.100		
L-Valine	52.850		
VITAMINS			
Choline chloride	8.980		
D-Biotin	0.0035		
D-Ca-Pantothenate	2.240		
Folic acid	2.660		
Niacinamide	2.020		
Pyridoxal hydrochloride	2.000		
Pyridoxine hydrochloride	0.031		
Riboflavin	0.219		
Thiamine hydrochloride	2.170		
Vitamin B12	0.680		
myo-Inositol	12.600		
OTHERS			
D-Glucose	3151.000		
DL-Thioctic acid	0.105		
HEPES buffer	3574.500		
Hypoxanthine	2.400		
 Linoleic acid	0.042		
Phenol red sodium salt	8.630		
Putrescine hydrochloride	0.081		
, Sodium pyruvate	110.000		
Thymidine	0.365		
•			

Quality Control

Appearance

Red colored, clear solution.

рΗ

7.00 -7.60

Osmolality in mOsm/Kg H₂O

300.00 -340.00

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 and comparing it with a control medium through minimum three subcultures.

Endotoxin Content

NMT 5EU/ml





Product Specification

cdhfinechemical.com

Storage and Shelf Life

Store at 2-8°C away from bright light. Shelf life is 12 months. Use before expiry date given on the product label.

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.
- Central Drug House Pvt. Ltd. reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.
- Do not use the products if it fails to meet specifications for identity and performance parameters.