



Product Specification

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Technical Information

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

With L-Glutamine, 15mM HEPES buffer and Sodium bicarbonate Without Phenol red and Trace elements 1X Liquid Cell Culture Medium

Product Code: AL1215A

Application:- Dulbecco's Modified Eagle Medium / Nutrient Mixture F12 Ham (DMEM/F12, 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.

AL1215A is DMEM/Nutrient Mixture F-12 Ham with L-glutamine, sodium bicarbonate and 15mM HEPES buffer. It does not contain phenol red and trace elements elements. 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

Composition**				
Ingredients	mg / Litre	Ì		
INORGANIC SALTS				
Calcium chloride dihydrate	154.500			
Copper sulphate pentahydrate	0.0013			
Disodium hydrogen phosphate	71.020			
Ferric nitrate nonahydrate	0.050			
Ferrous sulphate heptahydrate	0.417			
Magnesium chloride hexahydrate	61.200			
Magnesium sulphate anhydrous	48.840			
Potassium chloride	311.800			
Sodium bicarbonate	1200.000			
Sodium chloride	6996.000			
Sodium dihydrogen phosphate monohydrate	54.300			
Zinc sulphate heptahydrate	0.432			
AMINO ACIDS				
Glycine	18.750			
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-Histidine hydrochloride monohydrate	31.480			
L-Isoleucine	54.470			
L-Leucine	59.050			
L-Lysine hydrochloride	91.250			
L-Methionine	17.240			
L-Phenylalanine	35.480			
L-Proline	17.250			
L-Serine	26.250			





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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-Pantothenic acid	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
L-Glutamine	365.000
Linoleic acid	0.042
Putrescine hydrochloride	0.081
Sodium pyruvate	110.000
Thymidine	0.365

Quality Control

Appearance

Colourless, clear solution

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7.00 -7.60

Osmolality in mOsm/Kg H₂O

290.00 -330.00

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.

Endotoxin Content

NMT 1EU/ml

Storage and Shelf Life

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

Disclaimer:





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- 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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