



## **Product Specification**

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## **Technical Information**

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

With Sodium bicarbonate and Trace elements Without L-Glutamine and HEPES buffer 1X Liquid Cell Culture Medium

Product Code: AL1127

**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.

AL1127 is DMEM/Nutrient Mixture F-12 Ham with sodium bicarbonate and trace elements. It does not contain HEPES buffer and L-glutamine. 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
INORGANIC SALTS	
Ammonium metavanadate	0.00058
Ammonium molybdate tetrahydrate	0.00618
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
Manganese sulphate	0.000151
Nickel chloride	0.00012
Potassium chloride	311.800
Sodium bicarbonate	1200.000
Sodium chloride	6996.000
Sodium dihydrogen phosphate	54.300
Sodium metasillicate nonahydrate	0.0142
Sodium selenite	0.00519
Stannous chloride dihydrate	0.00011
Zinc sulphate heptahydrate	0.432
AMINO ACIDS	
Glycine	18.750
L-Alanine	4.450
L-Arginine hydrochloride	147.50
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





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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	
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	
Hypoxanthine	2.400	
Linoleic acid	0.042	
Phenol red sodium salt	8.630	
Putrescine hydrochloride	0.081	
Sodium pyruvate	110.000	
Γhymidine	0.365	

## Methodology

1. Add 12.5ml of 200mM L-glutamine (TCL1012) for 1 litre of medium.

## Material required but not provided

-Glutamine solution 200mM (TCL1012)

## **Quality control**

#### Appearance

Red colored, clear solution.

#### На

7.00 -7.60

#### Osmolality in mOsm/Kg H<sub>2</sub>O

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 through minimum three subcultures.





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#### **Endotoxin Content**

NMT 5EU/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.

### 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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