



Product Specification

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Technical Information

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

With HEPES buffer, L-Glutamine, Sodium bicarbonate and Trace elements 1X Liquid Cell Culture Medium

Product Code: AL1139A

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.

AL1139A is DMEM/Nutrient Mixture F-12 Ham with Lglutamine, sodium bicarbonate, 15mM HEPES buffer and trace 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 | |
| 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 ninahydrate | 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 | 147.500 | |
| 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 | |





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| 365.000 |
|------------------|
| 31.480 |
| 54.470 |
| 59.050 |
| 91.250 |
| 17.240 |
| 35.480 |
| 17.250 53.450 |
| 26.250 |
| 9.020 |
| 48.100 |
| 52.850 |
| 32.030 |
| 0.000 |
| 8.980 |
| 0.0035 |
| 2.240 |
| 2.660 |
| 2.020 |
| 2.000 |
| 0.031 |
| 0.219 |
| 2.170 |
| 0.680 |
| 12.600 |
| |
| 3151.000 |
| 0.105 |
| 3574.500 |
| |
| 2.400 |
| 0.042 |
| 8.630 |
| 0.081 |
| 110.000 |
| 0.365 |
| |

Quality Control

Appearance

Red colored, clear solution.

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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.





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Endotoxin Content

NMT 5EU/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:

- 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.
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