



Product Specification

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Technical Information

Minimum Essential Medium Eagle (MEM) (Alpha Modification)
With L Glutamine, Deoxyribonucleosides, Ribonucleosides, Sodium bicarbonate
Without Phenol red

Product Code: AL1253A

Application:- Minimum Essential Medium Eagle (MEM) is a modification of Basal Medium Eagle (BME). It was developed by Harry Eagle to meet the specific nutritional requirements of certain subtypes of HeLa cell sand fibroblasts. MEM includes higher concentration of amino acids so as to closely approximate the protein composition of cultured mammalian cells. MEM can be used either with Earle's salts or Hanks' salts and can also be additionally supplemented with non-essential Amino Acids (NEAA). This medium can be further modified by eliminating calcium to facilitate growth of cells in suspension cultures normal mammalian.

AL253A is alpha modification of Minimum Essential Medium Eagle with L-glutamine, deoxyribonucleoside, ribonucleoside and sodium bicarbonate. It does not contain phenol red. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines

Composition**	
ngredients	mg/Litre
INORGANIC SALTS	
Calcium chloride dihydrate	265.00
Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Sodium chloride	6800.00
Sodium bicarbonate	2200.00
Sodium dihydrogen phosphate anhydrous	122.00
AMINO ACIDS	
Glycine	50.000
L-Alanine	25.000
L-Arginine hydrochloride	126.000
L-Asparagine monohydrate	50.000
L-Aspartic acid	30.000
L-Cysteine hydrochloride monohydrate	100.000
L-Cystine dihydrochloride	31.300
L-Glutamic acid	75.000
L-Glutamine	292.000
L-Histidine hydrochloride monohydrate	42.000
L-Isoleucine	52.000
L-Leucine	52.000
L-Lysine hydrochloride	72.500
L-Methionine	15.000
L-Phenylalanine L-Proline	32.000 40.000
L-Profine L-Serine	25.000
L-Serine L-Threonine	48.000
L-1111 EO11111E	40.000





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10.00
51.900
46.000
1.000
0.100
1.000
1.000
50.000
1.000
1.000
0.100
1.000
1.360
2.000
10.000
11.000
10.000
10.000
10.000
1000.00
10.000
0.200
110.000
10.000
10.000

Quality control

Appearance :

Colourless clear solution

pH:

7.00-7.60

Osmolality in mOsm/Kg H₂O(at 2X concentration):-

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.

Endotoxin Content:

NMT 1EU/ml

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.





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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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