



Product Specification

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Technical Information

Dulbecco's Modified Eagle Medium (DMEM)

With L-Glutamine, 1gm Glucose per litre, Sodium bicarbonate and Sodium pyruvate 1X Liquid **Cell Culture Medium**

Product Code: AL1006A

Application:-Dulbecco's Modified Eagle Medium (DMEM) is one of the most widely used modification of Eagle's medium. DMEM is a modification of Basal Medium Eagle (BME) that contains four fold concentration of amino acids and vitamins. Additionally, the formulation also includes glycine, serine and ferric nitrate. The original formulation contains 1000mgs/L of Glucose and was originally used to culture embryonic mouse cells.

AL1006A is Dulbecco's Modified Eagle Medium. It contains L-glutamine, 1gm glucose per litre, sodium bicarbonate and sodium pyruvate. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

ngredients	mg/Litre
NORGANIC SALTS	
Calcium chloride dehydrate	265.000
erric nitrate nonahydrate	0.100
Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Sodium bicarbonate	3700.000
Sodium chloride	6400.000
Sodium dihydrogen phosphate anhydrous	109.000
AMINO ACIDS	
Glycine	30.000
-Arginine hydrochloride	84.000
-Cystinedihydrochloride	62.570
-Glutamine	584.000
L-Phenylalanine	66.000
L-Serine	42.000
L-Threonine	95.000
-Histidine hydrochloride monohydrate	42.000
Isoleucine	105.000
-Leucine	105.000
-Lysine hydrochloride	146.000
-Methionine	30.000
-Tryptophan	16.000
-Tyrosine disodium salt	103.790
Valine	94.000
VITAMINS	
Choline chloride	4.000
O-Ca-Pantothenate	4.000
Folic acid	4.000
/ITAMINS Choline chloride O-Ca-Pantothenate	4.000 4.000





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Nicotinamide	4.000
Pyridoxal hydrochloride	4.000
Riboflavin	0.400
Thiamine hydrochloride	4.000
i-Inositol	7.200
OTHERS	
D-Glucose	1000.000

Quality Control

Phenol red sodium salt

Sodium pyruvate

Appearance

Orangish red colored, clear solution.

рΗ

7.00 -7.60

Osmolality in mOsm/Kg H₂O

310.00 -350.00

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

15.900

110.000

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

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.
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