



Product Specification

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Technical Information

Dulbecco's Modified Eagle Medium (DMEM)

With 4.5gms Glucose per liter, L-Glutamine, Sodium bicarbonate and Sodium pyruvate Without Calcium chloride 1X Liquid Cell Culture Medium

Product Code: AL1219A

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 1000mg/L of glucose and was originally used to culture embryonic mouse cells.

DMEM high glucose is a further modification of original DMEM and contains 4500mg/L of glucose. The additional glucose has proved to be useful in cultivating various other cell lines including primary cultures of mouse and chicken cells as well as various normal and transformed cell lines

AL1219A is Dulbecco's Modified Eagle Medium with 4.5gms glucose per litre, L-glutamine, sodium bicarbonate and sodium pyruvate. It does not contain calcium chloride and hence can be used for culture of suspension cells. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

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Ingredients	mg / Litre	
INORGANIC SALTS		
Ferric nitrate nonahydrate	0.100	
Magnesium sulphate anhydrous	97.720	
Potassium chloride	400.000	
Sodium bicarbonate	3700.000	
Sodium chloride	6400.000	
Sodium phosphate monobasic anhydrous	109.000	
AMINO ACIDS		
Glycine	30.000	
L-Arginine hydrochloride	84.000	
L-Cystine dihydrochloride	62.570	
L-Glutamine	584.000	
L-Histidine hydrochloride monohydrate	42.000	
L-Isoleucine	105.000	
L-Leucine	105.000	
L-Lysine hydrochloride	146.000	
L-Methionine	30.000	
L-Phenylalanine	66.000	
L-Serine	42.000	
L-Threonine	95.000	
L-Tryptophan	16.000	
L-Tyrosine disodium salt	103.790	
L-Valine	94.000	





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Choline chloride	4.000
D-Ca-Pantothenate	4.000
Folic acid	4.000
Nicotinamide	4.000
Pyridoxal 5 phosphate	4.000
Riboflavin	0.400
Thiamine hydrochloride	4.000
i-Inositol	7.200

OTHERS

D-Glucose 4500.000
Phenol red sodium salt 15.900
Sodium pyruvate 110.000

Quality Control

Appearance

Red colored, clear solution.

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7.00 -7.60

Osmolality in mOsm/Kg H₂O

330.00 -370.00

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.

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.
- 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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- Do not use the products if it fails to meet specifications for identity and performance parameters.