



Technical Datasheet

Dulbecco's Modified Eagle Medium (DMEM), High glucose

With 4.5gms Glucose per litre, L-Glutamine and Sodium bicarbonate Without Sodium pyruvate and Sodium phosphate

Product Code: AL068A

Product Description:

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.

DMEM high glucose is a further modification of original DMEM and contains 4500mgs/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.

AL068A is DMEM with L-glutamine, 4.5gms per litre glucose and sodium bicarbonate. It does not contain sodium phosphate and sodium pyruvate. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

Composition:

Ingredients	mg/L
INORGANIC SALTS	265,000
Calcium chloride dihydrate	265.000
Ferric nitrate nonahydrate	0.100
Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Sodium bicarbonate	3700.000
Sodium chloride	6400.000
AMINO ACIDS	0.100.000
Glycine	30.000
L-Arginine hydrochloride	84.000
L-Cystine dihydrochloride	62.570

584.000
42.000
105.000
105.000
146.000
30.000
66.000
42.000
95.000
16.000
103.790
94.000
4.000
4.000
4.000
4.000
4.000
0.400
4.000
7.200
4500.000
15.900

Quality Control:

Appearance

Red colored, clear solution.

pН

7.00 - 7.60

Osmolality in mOsm/Kg H₂O

320.00 - 360.00

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.

Disclaimer: Revision: 04/2022

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMediaTM publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMediaTM Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

