



Product Specification

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Technical Information

Dulbecco's Modified Eagle Medium (DMEM), High glucose
With 4.5gms Glucose per litre, 25mM HEPES buffer and Sodium bicarbonate
Without L-Glutamine and Sodium pyruvate

Product Code: AL1067G

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. 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 of various other cell lines including primary cultures of mouse and chicken cell as well as various normal and transformed cell lines.

AL1067G is DMEM with L-Alanyl-LGlutamine, 4.5gms per litre glucose, 25mM HEPES buffer and sodium bicarbonate. It does not contain sodium pyruvate. 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	
Calcium chloride dihydrate	265.000
Ferric nitrate nonahydrate	0.100
Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Sodium bicarbonate	3700.00
Sodium chloride	4400.000
Sodium dihydrogen phosphate anhydrous	109.000
AMINO ACIDS	
Glycine	30.000
L-Arginine hydrochloride	84.000
L-Cystine dihydrochloride	62.570
L-Alanyl-L-Glutamine	368.00
L-Histidine hydrochloride monohydrate	42.000
L-Isoleucine	105.00
L-Leucine	105.00
L-Lysine hydrochloride	146.00
L-Methionine	30.000
L-Phenylalanine	66.000
L-Serine	42.000
L-Threonine	95.000
L-Tryptophan	16.000
L-Tyrosine disodium salt dihydrate	103.790
L-Valine	94.000





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VITAMINS

Choline chloride 4.000 4.000 D-Ca-Pantothenate 4.000 Folic acid Nicotinamide 4.000 Pyridoxine hydrochloride 4.000 Riboflavin 0.400 Thiamine hydrochloride 4.000 i-Inositol 7.200 OTHERS

D-Glucose 4500.00 **HEPES Buffer** 5958.00 Phenol red sodium salt 15.900

Quality control

Appearance

Orangish red colored, clear solution

рΗ

7.00 -7.60

Osmolality in mOsm/Kg H₂O

310.0 -350.00

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:

- 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
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