

### Technical Information

#### Dulbecco's Modified Eagle Medium (DMEM)

With L-Glutamine and Sodium bicarbonate Without Glucose and Sodium pyruvate

#### Product Code: AL1269A

**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.

AL269A is Dulbecco's Modified Eagle Medium. It contains L-glutamine and sodium bicarbonate. It does not contain glucose 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/Litre
<b>INORGANIC SALTS</b>	
Calcium chloride dihydrate	265.00
Ferric nitrate nonahydrate	0.100
Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Sodium chloride	6400.00
Sodium bicarbonate	3700.00
Sodium dihydrogen phosphate anhydrous	109.000
<b>AMINO ACIDS</b>	
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	146.00
L-Methionine	30.000
L-Phenylalanine	66.000
L- Serine	42.000
L-Threonine	95.000
L-Tryptophan	16.000
L-Tyrosine disodium salt	103.790
L-Valine	94.000
<b>VITAMINS</b>	
Choline chloride	4.000
D-Ca-Pantothenate	4.000
Folic acid	4.000
Nicotinamide	4.000
Pyridoxal hydrochloride	4.000

Riboflavin	0.400
Thiamine hydrochloride	4.000
i-Inositol	7.200
<b>OTHERS</b>	
Phenol red sodium salt	15.900

### Quality control

#### Appearance :

Red colored Clear solution.

#### pH

7.00-7.60

#### Osmolality in mOsm/Kg H<sub>2</sub>O

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:

### 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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