

### Technical Information

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

With L-Glutamine, Sodium bicarbonate and Sodium pyruvate without Glucose

**Product Code: AL1186A**

**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.

AL1186A is Dulbecco's Modified Eagle Medium. It contains L-glutamine, sodium bicarbonate and sodium pyruvate. It does not contain Glucose. 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 bicarbonate	3700.000
Sodium chloride	6400.00
Sodium phosphate monobasic anhydrous	109.000
<b>AMINO ACIDS</b>	
Glycine	30.000
L-Arginine hydrochloride	84.000
L-Cystine dihydrochloride	62.570
L-Glutamine	584.00
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 sodium salt	103.790
L-Valine	94.000

### VITAMINS

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

Phenol red sodium salt	15.900
Sodium pyruvate	110.00

## Quality control

### Appearance :

Red coloured clear solution.

### pH :

7.00 -7.60

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

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.
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