



## **Product Specification**

cdhfinechemical.com

## **Technical Information**

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

## Product Code: AL1264A

**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 mouse embryonic cells. DMEM high glucose is a further modification of original DMEM and contains 4500mgs glucose per litre. 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.

AL1264A is Dulbecco's Modified Eagle Medium with 4.5gm glucose per litre, L-glutamine, sodium pyruvate and sodium bicarbonate. It does not contain phenol red. 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	
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 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	146.00
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
VITAMINS	
Choline chloride	4.000
D-Ca-Pantothenate	4.000
Folic acid	4.000
Nicotiinamide	4.000
Pyridoxal 5 phosphate	4.000





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Riboflavin 0.400
Thiamine hydrochloride 4.000
i-Inositol 7.200

**OTHERS** 

D-Glucose 4500.00 Sodium pyruvate 110.00

## **Quality control**

#### Appearance:

Clear colorless solution.

**pH**:7.00-7.60

Osmolality in mOsm/Kg H<sub>2</sub>O:-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:

- 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.