## Product Specification

| Technical Information |  |
| :---: | :---: |
| Dulbecco's <br> With <br> Without L-Glutam | odified ms Gluc e, Calciu |
| Product Code: AL1293 |  |
| 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 $1000 \mathrm{mgs} / \mathrm{L}$ of glucose and was originally used to culture embryonic mouse cells.DMEM high glucose is a further modification of original DMEM and contains $4500 \mathrm{mgs} / \mathrm{L}$ 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. <br> AL1293 is Dulbecco's Modified Eagle Medium with 4.5 gms glucose per litre and sodium bicarbonate. It does not contain L-Glutamine, Calcium chloride, HEPES buffer 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 |
| INORGANIC SALTS |  |
| Ferric nitrate nonahydrate | 0.100 |
| Magnesium sulphate anhydrous | 97.720 |
| Potassium chloride | 400.000 |
| Sodium bicarbonate | 3700.00 |
| Sodium chloride | 6400.00 |
| Sodium dihydrogen phosphate anhydrous | 109.00 |
| AMINO ACIDS |  |
| Glycine | 30.000 |
| L-Arginine hydrochloride | 84.000 |
| L-Cystine dihydrochloride | 62.570 |
| L-Histidine hydrochloride monohydrate | 42.000 |
| L-Isoleucine | 105.00 |
| L-Leucine | 105.00 |
| L-Lysine hydrochloride | 146.200 |
| L-Methionine | 30.000 |
| L-Phenylalanine | 66.000 |
| L-Serine | 42.000 |
| L-Threonine | 95.200 |
| L-Tryptophan | 16.000 |
| L-Tyrosine disodium salt | 103.790 |
| L-Valine | 94.000 |
| VITAMINS |  |
| Choline chloride | 4.000 |

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| 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 |
| OTHERS |  |
| D-Glucose | 4500.000 |
| Phenol red sodium salt | 15.900 |
|  |  |
| Methodology |  |

1. Add 20 ml of 200 mM L-glutamine (TCL1012) for 1 litre of medium

Material Required But Not Provided
L-Glutamine solution 200mM (TCL1012)

## Quality control

## Appearance :

Red coloured clear solution
pH :
value
Osmolality in mOsm/ $\mathrm{Kg} \mathrm{H}_{2} \mathrm{O}$ :-
value
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 $2-8^{\circ} \mathrm{C}$ away from bright light. Shelf life is 18 months. Use before expiry date given on the product label.

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## 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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