

## 【Product Name】

Name: DMEM , High Glucose, without Sodium Pyruvate, with L-Glutamine

Cat. No: C3110-0500、C3110-0100

Specifications: 500ml、100ml

## 【Product Description】

**DMEM , High Glucose, without Sodium Pyruvate, with L-Glutamine** 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 that contains four fold concentration of amino acids and ferric nitrate. The original formulation contains 1000mgs glucose per litre and was originally used to culture embryonic mouse 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.

Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

## 【Composition】

Ingredients	Mg/L
<b>INORGANIC SALTS</b>	
Calcium chloride dihydrate	265.000
Ferric nitrate nonahydrate	0.100

Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Sodium chloride	6400.000
Sodium dihydrogen phosphate 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	146.000
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

### Vitamins

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

### OTHERS

D-Glucose	1000.000
Phenol red Sodium Salt	15.900
Sodium bicarbonate	3700.000

### 【Storage and Stability】

DMEM , High Glucose, without Sodium Pyruvate, with L-Glutamine should be kept 2-8°C. The product is light -sensitive and therefore should not be left in the light. When stored in the dark under ideal conditions, the product is stable until the expiry date.

As with any other liquid media formulations, deterioration of liquid media may be recognized by any of the following characteristics, among others including:

- (a). Color Change;
- (b). Presence of clumping/flocculent debris/ granulation/ particulates\ precipitates or sediments;
- (c). Insolubility;

(d). And/or decrease in expected performance parameters.

Any material described above should not be used and therefore discarded.

### 【Procedure】

- 1.Take a bottle from the defined storage conditions at 2-8°C and read the label.
- 2.Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.
- 3.Using aseptic/sterile technique under a laminar-flow culture hood, work according to established protocols.
- 4.Antibiotics may be added if desired.

### 【Quality Contro】

DMEM , High Glucose, without Sodium Pyruvate, with L-Glutamine is tested for sterility, pH, osmolality and endotoxin concentrations. In addition, each batch is tested for cell growth using A549.

### 【Precaution and Disclaimer】

For research use only, not for clinical diagnosis and treatment.

