

【Product Name】

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

Cat. No: C3112-0500、C3112-0100

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.

It is super low endotoxin SLE™ grade, Endotoxin ≤ 0.01EU/ml by LAL method. The production process and quality management system meet the requirements of cGMP and has passed ISO13485 certification.

It does not contain trace elements. 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
INORGANIC SALTS	
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	(c). Insolubility;
Folic acid	4.000	(d). And/or decrease in expected performance parameters.
Nicotinamide	4.000	
Pyridoxal hydrochloride	4.000	Any material described above should not be used and therefore discarded.
Riboflavin	0.400	

Thiamine hydrochloride	4.000
i-Inositol	7.200

OTHERS

D-Glucose	1000.000
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;

【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 Control】

DMEM , High Glucose, without Sodium Pyruvate, Phenol red, 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.

