

**Product Name**

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

Cat. No.: C3118-0500

Size: 500 mL

**Product Description**

DMEM, High Glucose, without Sodium Pyruvate, L-Glutamine, Phenol Red is one of the most widely used modified Eagle's medium. DMEM is a modification of Basal Medium Eagle (BME) that contains four-fold higher concentration of amino acids and vitamins. Additionally, the formulation also includes glycine, serine and ferric nitrate. The original formulation contains 1000 mg glucose per liter and was originally used to culture embryonic mouse cells. DMEM high glucose is a further modification of the original DMEM and contains 4500 mg glucose per liter. The additional glucose has proved to be useful in cultivating various 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	Ingredients	mg/L
<b>INORGANIC SALTS</b>			
Calcium chloride dihydrate	265.000	Potassium chloride	400.000
Ferric nitrate nonahydrate	0.100	Sodium chloride	6400.000
Magnesium sulphate anhydrous	97.720	Sodium dihydrogen phosphate anhydrous	109.000
<b>Amino Acids</b>			
Glycine	30.000	L-Methionine	30.000
L-Arginine hydrochloride	84.000	L-Phenylalanine	66.000
L-Cystine dihydrochloride	62.570	L-Serine	42.000
L-Histidine hydrochloride monohydrate	42.000	L-Threonine	95.000
L-Isoleucine	105.000	L-Tryptophan	16.000
L-Leucine	105.000	L-Tyrosine Disodium Salt	103.790
L-Lysine hydrochloride	146.000	L-Valine	94.000
<b>Vitamins</b>			
Choline chloride	4.000	Pyridoxal hydrochloride	4.000
D-Ca-Pantothenate	4.000	Riboflavin	0.400
Folic acid	4.000	Thiamine hydrochloride	4.000
Nicotinamide	4.000	i-Inositol	7.200

**OTHERS**

D-Glucose	4500.000	Sodium bicarbonate	3700.000
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**Storage and Stability**

The product should be kept at **2 - 8°C**.

The product is **light-sensitive** and therefore should not be left in the light.

Shelf life: 12 months from date of manufacture

**Procedure**

1. Take a bottle from the storage at 2 - 8°C and read the label.
2. Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.
3. Take out appropriate volume of the product using aseptic/sterile technique under a laminar-flow culture hood.
4. Add antibiotics or other nutrients if desired.

**Quality Control**

DMEM, High Glucose, without Sodium Pyruvate, L-Glutamine, Phenol Red is tested for sterility, pH, osmolality, and endotoxin concentration. In addition, each batch is tested for cell growth performance.

**Precaution and Disclaimer**

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