

DMEM, High Glucose, Pen-Strep

Cat. No.: G4511PS

Product Information

Product Name	Cat. No.	Spec.
DMEM, High Glucose, Pen-Strep	G4511PS-500ML	500 mL

Product Description

Dulbecco's Modified Eagle Medium (DMEM), is a modified medium based on MEM, is a widely used basal medium for supporting the growth of many different mammalian cells. Cells successfully cultured in DMEM include primary fibroblasts, neurons, glial cells, HUVECs, and smooth muscle cells, as well as cell lines such as HeLa, 293, Cos-7, and PC-12.

This product contains amino acids, vitamins, inorganic salts and other ingredients required for cell culture, without protein or growth factors. Need to add 5-10% serum or serum-free additives depending on the cell type.

L-alanyl-L-glutamine, is a cell culture additive that replaces medium moles of L-glutamine in cell culture media. The substance is stable in aqueous solution and does not degrade spontaneously. Instead, it is slowly degraded by a peptidase secreted by cells to release glutamine, which is then absorbed and used by cells.

Penicillin can interfere with the synthesis of bacterial cell walls and is especially effective against gram-positive bacteria. Streptomycin can bind to the 30S subunit of the bacterial ribosome and inhibit the synthesis of bacterial proteins. It is effective against both gram-negative and Gram-positive bacteria, but it is particularly effective against Gram-negative bacteria. The combination of penicillin and streptomycin can prevent most bacterial contamination.

The major character of this medium is as follows:

- With 25 mM Glucose, 4.0 mM GlutaPlus, phenol red
- With 1.0 sodium pyruvate
- With 100 KU/L penicillin G sodium salt, 100 mg/L streptomycin sulfate
- Without HEPES

The complete formulation is available.

Storage and Shipping Conditions

Ship at room temperature; Store away from light at 2-8°C, valid for 12 months.

Note

1. This product has been filtered and sterilized. Attention should be paid to aseptic operation to avoid contamination.
2. Avoid freezing the medium, as ice formation can lead to precipitation of nutrients, which may not fully dissolve upon thawing, affecting cell culture performance. Additionally, when storing

the medium at 2-8°C in a refrigerator, do not place it directly against the inner wall to prevent local chilling that could cause the medium to freeze.

3. For your safety and health, please wear safety glasses, gloves and protective clothing.

For Research Use Only!

Ver. No.: V1.1-20260528