MEBEP TECH(HK) Co., Limited

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High-glucose DMEM, with GlutaPlus, with Sodium Pyruvate, without HEPES

Product Number: S060386

Shipping and Storage

Transport at room temperature; store in a light-protected area at 2-8°C, with a shelf life of 12 months.

Description

DMEM (Dulbecco's Modified Eagle Medium) high glucose, or DMEM high-glucose medium, is an improved version of MEM (Minimum Essential Medium) and is widely used for culturing various cell types. DMEM high-glucose medium is commonly employed for rapidly growing and low-adhesion cells. It can be utilized for culturing a variety of mammalian primary cells, such as primary fibroblasts, neurons, glial cells, HUVECs (Human Umbilical Vein Endothelial Cells), smooth muscle cells, and more. It is also suitable for culturing certain cell lines, including HeLa, 293, Cos-7, and PC-12.

This product contains various components such as amino acids, vitamins, and inorganic salts required for cell culture, but it does not contain proteins or growth factors. Depending on the cell type, 5-10% serum or serum-free supplements should be added for use.

This product is sterilized by filtration through a 0.1μm membrane, with a pH of 7.0-7.4, containing 25mM D-glucose, supplemented with 4.0mM L-alanyl-L-glutamine and 1.0mM sodium pyruvate, and includes phenol red as an indicator, without a HEPES buffer system.

L-Alanyl-L-glutamine is a cell culture additive that can replace equimolar amounts of L-glutamine in cell culture media. This compound is highly stable in aqueous solutions and does not degrade spontaneously. Instead, it is slowly degraded by a peptidease secreted by cells to release glutamine, which is then absorbed and utilized by the cells.

Note

1. This product has been filtered and sterilized. When using it, attention should be paid to aseptic operation to avoid contamination;
2. Avoid freezing the culture medium, as freezing may cause nutrient precipitation and may not completely dissolve after reheating, affecting the effectiveness of cell culture. In addition, when storing the culture medium in a refrigerator at 2-8℃, do not store it tightly against the inner wall of the refrigerator to prevent the medium from freezing due to low local temperatures.