

Advanced DMEM

Cat. No.: G4500

Product Information

Product Name	Cat. No.	Spec.
Advanced DMEM	G4500-500ML	500 mL

Product Description / Introduction

Advanced DMEM is widely used in mammalian cell culture. Compared with the classic DMEM medium, Advanced DMEM can reduce serum usage by 50-90% without affecting the growth rate and morphology of the cells. Cells such as A549、Hela、MRC-5、Vero、C2C12 can be cultured directly in Advanced DMEM without adaptation.

The unique effect of Advanced DMEM in reducing the amount of serum added is attributed to the addition of the following components: ethanolamine, glutathione, ascorbic acid, insulin, transferrin, lipid-rich bovine serum albumin for cell culture, and multiple trace elements (sodium selenite, ammonium metavanadate, copper sulfate, and manganese chloride). Advanced DMEM requires supplementation with 1–5% fetal bovine serum and 4 mM L-glutamine or GlutaMAX™ supplement, HEPES (optional, depending on the cells). Many cell lines can use this medium without adaptation. However, the FBS concentration must be optimized for each cell line to minimize serum addition.

This product is sterilized by filtration through a 0.1 μm filter, its pH is 7.0-7.4, and it contains 25 mM D-glucose, 1.0 mM sodium pyruvate, and phenol red as an indicator. It does not contain L-glutamine and HEPES.

Storage and Shipping Conditions

Transport at room temperature; store at 2–8°C away from light for 12 months.

Note

1. This product has been filtered and sterilized, and aseptic techniques should be applied during use to avoid contamination.
2. To ensure optimal performance, do not freeze.
3. This product does not contain L-glutamine and HEPES. Supplementary addition is recommended based on specific cell requirements..

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