

AG- DMEM (Dulbecco's Modified Eagle Medium)

INSTRUCTION FOR USE

AstraGene Dulbecco's Modified Eagle Medium (DMEM) can be used to culture a variety of suspension and adherent mammalian cells, including primary fibroblasts, neurons, glial cells, HUVECs, and smooth muscle cells, as well as cell lines such as HeLa, 293, Cos-7, and PC-12. DMEM is unique from other media because it contains 4 times the concentration of amino acids and vitamins than the original Eagle's Minimal Essential Medium. DMEM was originally formulated with low glucose (1 g/L) and sodium pyruvate, but it is often used with higher glucose levels, with or without sodium pyruvate. DMEM contains no proteins, lipids, or growth factors. Therefore, DMEM requires supplementation, commonly with 10% fetal bovine serum (FBS). DMEM uses a sodium bicarbonate buffer system (3.7 g/L) and requires a 5–10% CO₂ environmental atmosphere to maintain physiological pH.

PACKAGE CONTENTS

Product	Catalogue No.
DMEM High Glucose (4.5 g/l), with L-Glutamine - 500mL	AG/MEDIUM/DMEM-HA/01
DMEM High Glucose (4.5 g/l), with L-Glutamine - 1000mL	AG/MEDIUM/DMEM-HA/02
DMEM High Glucose (4.5 g/l), with L-Glutamine, with Sodium Pyruvate -500mL	AG/MEDIUM/DMEM-HPA/01
DMEM High Glucose (4.5 g/l), with L-Glutamine, with Sodium Pyruvate -1000mL	AG/MEDIUM/DMEM-HPA/02
DMEM Low Glucose (1 g/l) with L-Glutamine, with Sodium Pyruvate -500mL	AG/MEDIUM/DMEM-LPA/01
DMEM Low Glucose (1 g/l) with L-Glutamine, with Sodium Pyruvate -1000mL	AG/MEDIUM/DMEM-LPA/02

GUIDELINES FOR USE

- Ready-to-use commercial cell culture media undergoes strict quality control to ensure sterility but may become contaminated while handling. Follow these guidelines for sterile handling to avoid contamination.
- Always wipe your gloved hands and work area with 70% ethanol.
- Wipe the outside of the containers, flasks, plates, and dishes with 70% ethanol before placing them in the cell culture hood.
- Use sterile pipette tips and pipettes to work with liquids and use each pipette tip only once to avoid cross-contamination.
- Do not unwrap sterile pipettes until they are ready to be used. Keep pipettes and tips within the clean work area.
- Do not talk while performing sterile procedures and perform your cell culture as efficiently and carefully as possible to minimize contamination.

STORAGE &STABILITY

Store at 2-8°C, protect from light. The unopened medium is stable until the expiration date marked on its bottle.

SYMBOLS



Do not use if package is damaged



Manufacturer



Batch Code



CE mark of Conformity



Refer to the instructions



ISO



GMP



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