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Gibco™

Advanced DMEM

Advanced DMEM (Dulbecco's Modified Eagle Medium) is a widely used basal medium that allows the culture of mammalian cells [Read more](#)

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Price (EUR) / 500 mL

33,71

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Advanced DMEM (Dulbecco's Modified Eagle Medium) is a widely used basal medium that allows the culture of mammalian cells with reduced Fetal Bovine Serum (FBS) supplementation. Compared to classic DMEM, serum supplementation can be reduced by 50–90% with no change in growth rate or morphology. Cells successfully cultured in Advanced DMEM, with no adaptation, include MDBK, HepG2, COS-7, A549, MDCK, WI-38, and Vero.

This Advanced DMEM is manufactured as follows:

- | With | Without |
|---|---|
| <ul style="list-style-type: none">• High glucose• Non Essential Amino Acids• Sodium pyruvate• Phenol Red | <ul style="list-style-type: none">• L-glutamine |

The complete [formulation](#) is available.

Using Advanced DMEM

Advanced DMEM is unique from other media due to the addition of the following ingredients to allow for serum reduction: ethanolamine, glutathione, ascorbic acid, insulin, transferrin, AlbuMAX™ I lipid-rich bovine serum albumin for cell culture, and the trace elements sodium selenite, ammonium metavanadate, cupric sulfate, and manganous chloride. Advanced DMEM requires supplementation with 1–5% [Fetal Bovine Serum](#) and 4 mM L-glutamine or [GlutaMAX™](#) supplement. Many cell lines do not require adaptation to this media. The FBS concentration must be optimized for each cell line to obtain maximum serum reduction. Advanced DMEM uses a sodium bicarbonate buffer system (3.7 g/L), and therefore requires a 5–CO₂ environment to maintain physiological pH.

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Specifications

Cell Line	MDBK, HepG2, COS-7, A549, MDCK, WI-38, and Vero
Classification	Animal Origin
Concentration	1 X
Form	Liquid
Product Type	DMEM (Dulbecco's Modified Eagle Medium)
Serum Level	Reduced Serum
Shelf Life	12 Months From Date of Manufacture
Sterility	Sterile-filtered
With Additives	High Glucose, Phenol Red, Sodium Pyruvate, Non Essential Amino Acids (NEAA)
Without Additives	No Glutamine, No HEPES
Green Features	Sustainable packaging
Manufacturing Quality	cGMP-compliant under the ISO 13485 standard
Product Line	Gibco™
Quantity	500 mL
Shipping Condition	Room Temperature
Unit Size	500 mL

Contents & Storage

Storage conditions: 2-8° C. Protect from light

Shipping conditions: Ambient

Shelf life: 12 months from date of manufacture

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Product Information

Manuals



- [Advanced Reduced Serum Media](#)

Frequently asked questions (FAQs)

at factors can contribute to rapid cell death/culture failure?



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compatibility, and volumes of vehicle solution, typpin, and growth medium.

Is it necessary to measure and adjust pH for the liquid media (classical or specialty) you sell, or are they already at the optimal pH?



Can the Gibco Media Configurator be used for my own proprietary formulation?



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Citations & References (2)

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Citations & References

Abstract

[Surface functionalization of carbon nanomaterials by self-assembling hydrophobin proteins.](#)

Authors: Yang W, Ren Q, Wu YN, Morris VK, Rey AA, Braet F, Kwan AH, Sunde M,

Journal: Biopolymers

PubMed ID: 23097233

'Class I fungal hydrophobins are small surface-active proteins that self-assemble to form amphipathic monolayers composed of amyloid-like rodlets. The monolayers are extremely robust and can adsorb onto both hydrophobic and hydrophilic surfaces to reverse their wettability. This adherence is particularly strong for hydrophobic materials. In this report, we show that ... [More](#)

[Phenotypic changes of adult porcine mesenchymal stem cells induced by prolonged passaging in culture.](#)

Authors: Vacanti V, Kong E, Suzuki G, Sato K, Canty JM, Lee T,

Journal: J Cell Physiol

PubMed ID: 15880640

'The in vitro culture of porcine bone marrow-derived mesenchymal stem cells (MSCs) was used for the investigation of adult stem cell biology. Isolated porcine MSCs possessed the ability to proliferate extensively in Gibco(R) Advanced DMEM containing 5% fetal bovine serum (FBS). Greater than 40 serial MSC passages and 100 cell ... [More](#)

2 total citations

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Catalog number: 11668019

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