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Gibco™

DMEM, high glucose, no glutamine, no phenol red

DMEM (Dulbecco's Modified Eagle Medium) is a widely used basal medium for supporting the growth of many different mammalian

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DMEM (Dulbecco's Modified Eagle Medium) 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. We offer a variety of DMEM modifications for a range of cell culture applications. Find the right formulation using the media selector tool.

This DMEM is modified as follows:

With	Without
• High Glucose	• L-glutamine
	• Phenol Red
	• Sodium Pyruvate
	• HEPES

The complete formulation is available.

Using DMEM

DMEM is unique from other media as 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 is often used with higher glucose levels, with or without sodium pyruvate. DMEM contains no proteins, lipids, or growth factors. Therefore, DMEM requires

For Research Use Only. Not for use in diagnostic procedures.

Specifications

Cell Line	HeLa, 293, Cos-7, and PC-12
Cell Type	Primary Fibroblasts, Neurons, Glial Cells, HUVECs, Smooth Muscle Cells
Concentration	1 X
Glucose Concentration	4500 mg/L
Manufacturing Quality	cGMP-compliant under the ISO 13485 standard
Product Line	Gibco™
Product Type	DMEM (Dulbecco's Modified Eagle Medium)
Quantity	500 mL
Shelf Life	12 Months From Date of Manufacture
Shipping Condition	Room Temperature
Classification	Animal Origin-free
Form	Liquid
Serum Level	Standard Serum Supplementation
Sterility	Sterile-filtered
Sterilization Method	Sterile-filtered
With Additives	High Glucose
Without Additives	No Glutamine, No HEPES, No Phenol Red, No Sodium Pyruvate
Unit Size	Each

Shipping conditions: Ambient

Shelf life: 12 months from date of manufacture

Explore all Gibco DMEM for reproducible cell culture results ›

Media Formulations

31053 - DMEM, high glucose, no glutamine, no phenol red

Have questions about this product? Ask our AI assisted search.

Ask a question about this product.

How do you prepare cell culture media from powder or from concentrates?

I'm seeing a rapid pH shift in my medium. What should I do?

How can I remove mycoplasma contamination from my cell culture medium?

Do you offer media without phenol red (phenol red-free media)?

Frequently asked questions (FAQs)

- Do you offer DMEM, high glucose without phenol red?
- What is the manganese concentration in DMEM? Do you offer manganese-free DMEM?
- I understand that some media are worse than others for fluorescence imaging. How do I choose?
- Should I be concerned about phenol red in my media when labeling my live cells with fluorescent dyes?
- How long can I keep my media after supplementing with serum?

View all **DMEM, high glucose, no glutamine, no phenol red, 500 mL** FAQs ›

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HepG2

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Flyers

Flyer: Gibco custom media manufacturing

Citations & References (2)

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Search

cerebral amyloid angiopathy: isolation of smooth muscle and endothelial cells from mouse brain.

Authors: Gauthier SA, Sahoo S, Jung SS, Levy E

Journal: Methods Mol Biol

PubMed ID: 22528096

cells has not been widely employed as a cell culture model for the investigation of cellular mechanisms involved in cerebral amyloid angiopathy (CAA). Difficulties in isolation and propagation of murine cerebrovascular cells and insufficient yields for molecular and cell culture studies ... More

Potentially novel candidate biomarkers for head and neck squamous cell carcinoma identified using an integrated cell line-based discovery strategy.

Authors: Sepiashvili L, Hui A, Ignatchenko V, Shi W, Su S, Xu W, Huang SH, O'Sullivan B, Waldron J, Irish JC, Perez-Ordonez B, Liu FF, Kislinger T

Journal: Mol Cell Proteomics

PubMed ID: 22918226

Head and neck squamous cell carcinomas (HNSCC) can arise from the oral cavity, oropharynx, larynx or hypopharynx, and is the sixth leading cancer by incidence worldwide. The 5-year survival rate of HNSCC patients remains static at 40-60%. Hence, biomarkers which can improve detection of HNSCC or early recurrences should improve ... More

2 total citations

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