

NutriCulture DMEM, High Glucose Troubleshooting Guide

500 mL

Cat No: DMEM-HG

Use this guide for source-supported handling and formulation checks for NutriCulture DMEM, High Glucose. The datasheet specifies 4-8°C storage with protection from light, use within 6-8 weeks after opening, and a formulation containing 4,500 mg/L D-glucose, 584 mg/L L-glutamine, 110 mg/L sodium pyruvate, and phenol red.

Before You Start - Quick Checks

1. Store at 4-8°C protected from light.
2. Once opened, use within 6-8 weeks.
3. Verify the product is DMEM-HG when a high-glucose formulation is required.
4. The formulation contains 4,500 mg/L D-glucose.
5. The formulation also contains L-glutamine and sodium pyruvate.
6. The datasheet provides formulation and storage information but does not specify cell-line-specific supplementation or culture conditions.

Problem	Most likely cause	Recommended action
Unexpected results after switching from another basal medium	The formulation may differ from the previous medium, especially glucose concentration.	Confirm that DMEM-HG is the intended formulation. The datasheet lists 4,500 mg/L D-glucose.
High- and low-glucose DMEM may have been confused	The wrong product identity may have been selected.	Check the label and Cat No. DMEM-HG before use. Do not substitute DMEM-LG when a high-glucose formulation is required.
Medium has been open longer than recommended	The stated 6-8 week post-opening period has been exceeded.	Use a bottle that is within the datasheet-specified 6-8 week period after opening.
Storage history is uncertain	The medium may not have been kept at the stated temperature or protected from light.	Use product with documented storage at 4-8°C with protection from light.
L-glutamine is assumed to be absent	The formulation may not have been checked before additional supplementation.	The datasheet lists L-glutamine at 584 mg/L. Verify the formulation before adding additional components.
Sodium pyruvate is assumed to be absent	The formulation may not have been checked.	The datasheet lists sodium pyruvate at 110 mg/L.
A cell-line-specific culture problem is attributed directly to the basal medium	The datasheet does not provide cell-line-specific seeding, serum, antibiotic, or incubation instructions.	First verify product identity, storage, opening date, and formulation. Use the validated cell-line protocol for parameters not specified in this datasheet.
Formulation comparison is unclear	Individual component concentrations may not have been reviewed.	Use the datasheet formulation table when comparing DMEM-HG with another medium; do not assume formulations are interchangeable.

Still having trouble? Verify Cat No. DMEM-HG, 4-8°C light-protected storage, the 6-8 week period after opening, and the listed formulation - especially 4,500 mg/L D-glucose, L-glutamine, and sodium pyruvate. The datasheet does not define cell-line-specific supplementation conditions.