

NutriCulture RPMI-1640

Troubleshooting Guide

500 mL

Cat No: RPMI

Use this guide for source-supported handling and formulation checks for NutriCulture RPMI-1640. The datasheet specifies 4-8°C storage with protection from light, use within 6-8 weeks after opening, and lists a formulation containing 2,000 mg/L D-glucose, 300 mg/L L-glutamine, reduced glutathione, phenol red, amino acids, vitamins, and inorganic salts.

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 identity as RPMI-1640 before use.
4. The formulation contains 2,000 mg/L D-glucose.
5. The formulation contains L-glutamine at 300 mg/L and reduced glutathione at 1 mg/L.
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 to RPMI-1640	The formulation may differ from the previous basal medium.	Verify that RPMI-1640 is the intended basal medium and compare the component table rather than assuming media are interchangeable.
Medium has been open longer than recommended	The 6-8 week post-opening period has been exceeded.	Use a bottle that is within the stated 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 4-8°C storage and light protection.
Glucose concentration is assumed incorrectly	The formulation may not have been reviewed.	The datasheet lists D-glucose at 2,000 mg/L.
L-glutamine is assumed to be absent	The formulation may not have been reviewed before supplementation.	The datasheet lists L-glutamine at 300 mg/L. Verify the medium composition before adding additional glutamine.
A cell-line-specific culture problem is attributed directly to RPMI	The datasheet does not specify serum level, antibiotic level, seeding density, or incubation conditions for a particular cell line.	First verify medium identity, storage, opening date, and formulation; use the validated cell-line protocol for conditions not specified in the datasheet.
Formulation comparison with another medium is unclear	The amino-acid, vitamin, salt, and other-component profiles may differ.	Use the datasheet formulation table for direct comparison and document the medium change in the experiment.

Still having trouble? Verify RPMI-1640 identity, 4-8°C light-protected storage, the 6-8 week period after opening, and the listed formulation including 2,000 mg/L glucose and 300 mg/L L-glutamine. The datasheet does not define cell-line-specific supplementation conditions.