

NutriCulture Fetal Bovine Serum

Troubleshooting Guide

50 mL

Cat No: FBS50

Use this guide for source-supported storage and quality-documentation checks for NutriCulture Fetal Bovine Serum. The datasheet specifies storage below -20°C, recommends aliquoting, and instructs users to avoid repeated freeze-thaw cycles. It also lists the quality-control parameters assessed for the serum.

Before You Start - Quick Checks

1. Store below -20°C.
2. Avoid repeated freeze-thaw cycles.
3. Prepare aliquots to reduce repeated thawing of the full bottle.
4. The datasheet describes the serum as rich in growth factors and low in antibodies.
5. Quality-control parameters include pH, osmolality, protein, albumin, IgG, hemoglobin, endotoxin, sterility, mycoplasma, and virus testing.
6. The datasheet does not specify a universal serum percentage, thawing protocol, or heat-inactivation procedure.

Problem	Most likely cause	Recommended action
Serum has undergone repeated freeze-thaw cycles	The handling history does not match the datasheet recommendation.	Use aliquots and avoid repeated freeze-thaw cycles.
Storage temperature is uncertain	The serum may not have been maintained below -20°C.	Use serum with a documented storage history below -20°C.
A quality concern is raised for a serum lot	A specific QC parameter may need review.	Review the lot documentation for the parameters listed in the datasheet: pH, osmolality, protein, albumin, IgG, hemoglobin, endotoxin, sterility, mycoplasma, and virus testing.
A culture protocol asks for a specific FBS percentage	The datasheet does not provide a universal supplementation percentage.	Follow the validated cell-culture protocol for the specific cell type; do not infer a percentage from this datasheet.
A thawing or heat-inactivation procedure is requested	These procedures are not specified in the datasheet.	Use the laboratory or cell-line-specific validated SOP for thawing or heat inactivation rather than attributing a method to this datasheet.
Cell behavior is different after changing serum conditions	The datasheet identifies growth factors and antibody content as relevant serum characteristics but does not define cell-line-specific responses.	Verify lot identity and QC documentation, then evaluate the change using the validated cell-culture protocol.
Country-of-origin documentation is needed	The product origin may not have been checked.	The datasheet states the country of origin as South America.

Still having trouble? First verify below -20°C storage and minimize freeze-thaw by using aliquots. For quality concerns, review the listed QC parameters and lot documentation. The datasheet does not define universal FBS concentration, thawing, or heat-inactivation conditions.