ATCC

Product Sheet

Calf Bovine Serum (ATCC® 30-2031™)

Please read this FIRST

Storage Temp.
Store calf bovine serum at -20°C or colder. Do not store frozen calf bovine serum at temperatures above -20°C for any length of time. Avoid repeated freeze-thaws by dispensing and storing calf bovine serum in aliquots. Calf bovine serum is supplied in PETG plastic bottles.

Biosafety Level
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Description

Product Description: Iron supplemented and triple filtered through 0.1 µm filters. Each lot of calf bovine serum is tested for sterility and for the ability to support the growth of cells using sequential growth curves. Calf bovine serum is manufactured from bovine blood collected in USDA-inspected abattoirs located in the United States. Serum has not come from cattle born, raised, shipped through, or slaughtered in countries where BSE is known to exist.
Origin: Calf bovine serum is manufactured from bovine blood collected in USDA-inspected abattoirs located in the United States. Blood is collected from donor animals by venipuncture between the ages of 16 and 22 weeks. Calf bovine serum is supplemented with iron to off-set the high concentrations of transferrin produced by formula-fed animals prior to collection.
Volume: 100 mL

Directions for Use

Thawing

Remove serum from frozen storage and place the bottle(s) overnight in a refrigerator at 2°C to 8°C. Remove the yellow plastic storage bag and transfer the bottle(s) to a 37°C water bath. Gently agitate the bottle(s) from time-to-time in order to mix the solutes that tend to concentrate at the bottom of the bottle. Do not keep serum at 37°C any longer than necessary for it to thaw completely. Alternatively, serum bottles may be placed in a 37°C water bath directly from frozen storage. Do not thaw serum at temperatures above 37°C. Bottles should be agitated by a gentle swirling motion to enhance mixing and thawing.
If you are not using all of your thawed serum at once, it is recommended to dispense it into single-use aliquots and store these at -20°C or colder. Temporary storage of thawed serum at 2°C to 8°C may be acceptable, depending on the customer application. This should be validated by the customer prior to implementation.

Serum Precipitates

Turbidity and flocculent material may be present after thawing. ATCC's experience indicates that neither of these changes affects the performance of serum. If the presence of flocculent material or turbidity is a concern, they can be removed by aseptic filtration through a sterile 0.45 µm filter.

Heat-Inactivation of Serum

CAUTION: Heat-inactivation of serum is usually unnecessary and can be detrimental to the growth of some cells. We strongly recommend that you heat-inactivate serum only if it is required for a particular cell line.

1. Thaw serum following the directions above.
2. Preheat a water bath to 56°C with sufficient water to rise above the level of the serum in the bottle.
3. Mix thawed serum by gently swirling the bottle and then place the bottle in the 56°C water bath. (The temperature of the water bath will decrease.)
4. When the temperature of the water bath reaches 56°C again, heat the serum for an additional 30 minutes. Mix gently every five minutes to insure uniform heating.
5. At the end of 30 minutes, remove serum from the water bath, cool, and store at -20°C or colder.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

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Additional information on this culture is available on the ATCC web site at www.atcc.org.
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