143B

CRL-8303™

Description

143B is a mixed cell that was isolated from the bone of a 13-year-old, White female with osteosarcoma. The cell is a suitable transfection host and can be used in cancer research

Tissue: Bone
Age: 13 years
Gender: Female
Morphology: mixed
Growth properties: Adherent
Disease: Osteosarcoma
Patent depository: This material was deposited with the ATCC Patent Depository to fulfill U.S. or international patent requirements. This material may not have been produced or characterized by ATCC. As an International Depository Authority (IDA) for patent deposits, ATCC is required to complete viability testing only at time of initial deposit of patent material. Patent deposits are made available on behalf of the Depositor when the pertinent U.S. or international patent is issued, but material may not be used to infringe the patent claims.
Patent number:
4,562,155
Technical information: ATCC Product Experience does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found in the corresponding patent available from the patent holder or with the U.S. and/or international patent office.

Storage Conditions

Product format: Frozen
Storage conditions: Vapor phase of liquid nitrogen

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Temperature: 37°C

Handling Procedures

Unpacking and storage instructions:

1. Check all containers for leakage or breakage.
2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C, preferably in liquid nitrogen vapor, until ready for use.

Complete medium: Complete medium Eagle's Minimum Essential Medium (ATCC 30-2003) with 0.015 mg/ml 5-bromo-2'-deoxyuridine, 90%; fetal bovine serum, 10%

Prepare media by combining:
500 mL of EMEM (ATCC 30-2003)
56 mL of FBS (ATCC 30-2020)
5.6 mL of 5-bromo-2'-deoxyuridine (1.5 mg/mL stock solution)

Prepare a 1.5 mg/mL stock solution of 5-bromo-2'-deoxyuridine by mixing
60 mg 5-Bromo-2'-deoxyuridine (Sigma 5002)
40 mL EMEM (ATCC 30-2003)
Mix well until completely dissolved. Filter sterilize using at 0.22um filter.
Store aliquots at -20°C or below.
Handling Procedure:

To ensure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.

1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 minutes).
2. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.
3. Transfer the vial contents to a centrifuge tube containing 9.0 mL complete

growth medium and spin at approximately 280 x g for 10 minutes.

4. Resuspend cell pellet with the recommended complete growth medium (see the lot information on Certificate of Analysis (COA) for the culture recommended dilution ratio) and dispense into a 25 cm^2 or a 75 cm^2 culture flask as recommended on the COA. The recommended seeding density for CRL-8303 is 2.0 x 10^4 to 6.0 x 10^4 viable cells/cm^2. It is important to avoid excessive alkalinity of the medium during recovery of the cells. It is suggested that, prior to the addition of the vial contents, the culture vessel containing the complete growth medium be placed into the incubator for at least 15 minutes to allow the medium to reach its normal pH (7.0 to 7.6).
5. Incubate the culture at 37°C in a suitable incubator. A 5% CO_2 in air atmosphere is recommended if using the medium described on this product sheet.

Subculturing procedure:
Remove medium, rinse with fresh 0.25% trypsin, 0.02% EDTA solution and allow the cells to sit at room temperature (or at 37°C) until they detach (about 10 minutes). Add fresh medium, aspirate and dispense into new flasks.
Medium Renewal: 2 to 3 times per week
Subculture Restrictions: Subculture before 100% confluence
Subculture Seeding Density: 8.0 x 10^3 to 4.0 x 10^4 viable cells/cm^2
Reagents for cryopreservation: Fetal bovine serum supplemented with 10% (v/v) DMSO (ATCC 4-X)

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: 143B (ATCC CRL-8303)

References

References and other information relating to this material are available at www.atcc.org.

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Revision

This information on this document was last updated on 2026-03-27

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