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.

Organism: Homo sapiens, human
Tissue: Bone
Age: 13 years
Gender: Female
Morphology: mixed
Growth properties: Adherent
Disease: Osteosarcoma

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Patent number:
4,562,155

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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
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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 submerged 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 submerged 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: Minimum essential medium (Eagle) in Earle’s BSS with 0.015 mg/ml 5-bromo-2'-deoxyuridine, 90%; fetal bovine serum, 10%

Handling Procedure:

To insure 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 125 xg for 5 to 7 minutes.
4. Resuspend cell pellet with the recommended complete growth medium (see the specific batch information for the culture recommended dilution ratio), and dispense into a 25 cm² or a 75 cm² culture flask. 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% CO₂ 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

**Reagents for cryopreservation:** Fetal bovine serum supplemented with 10% (v/v) DMSO (ATCC 4-X)

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

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**References**
References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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