Product Sheet



WEHI-231 **CRL-1702[™]**

Description

WEHI-231 is a B lymphocyte cell that was isolated from a mouse. This cell line was deposited by NL Warner and L Lanier. WEHI-231 can be used in immunology research. **Organism:** Mus musculus, mouse Cell Type: B lymphocyte Morphology: lymphoblast Growth properties: Suspension, multicellular aggregates

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.

BSL1

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 Atmosphere: 95% Air, 5% CO₂

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: The base medium for this cell line is ATCC-formulated Dulbecco's Modified Eagle's Medium, Catalog No. 30-2002. To make the complete growth

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medium, add the following components to the base medium: 2-mercaptoethanol to a final concentration of 0.05 mM; fetal bovine serum to a final concentration of 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.

- 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).
- 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 culture medium and spin at approximately 125 x g for 5 to 7 minutes. Discard supernatant.
- 4. Resuspend the cell pellet with the recommended complete medium and dispense into a 25 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% CO_2 in air atmosphere is recommended if using the medium described on this product sheet.

Subculturing procedure:

Optimum culture recovery from a frozen vial is in a T25 flask at a density between 2 to 5 X 10^5 viable cells/mL. If recovered at 5 X 10^5 viable cells/mL, media will need to be added to the culture within the first 3 days, before the density reaches 1 X 10^6 viable cells/mL, at which point the viability drops drastically.

After cells recover, expansions can be done at 1×10^5 viable cells/mL by adding media to decrease the cell concentration.

This cell line forms tight clusters of viable cells accompanied by some single nonviable cells plus debris in suspension. With increased growth the clusters become larger. As the cell density nears 1×10^6 cells/mL, the single (non-clustered) and nonviable cells increase along with the amount of debris.

At subculture, break up clusters by gentle pipetting.



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Established cultures can be grown in T75 flasks. **Subcultivation Ratio:** Add fresh medium every 2 to 3 days (depending on cell density) **Medium Renewal:** Every 2 to 3 days **Reagents for cryopreservation:** Complete growth medium supplemented with 5% (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: WEHI-231 (ATCC CRL-1702)

References

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

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