**Description**

**Organism:** Homo sapiens, human  
**Tissue:** Peripheral blood. Primary site of the tumor: Bone marrow  
**Disease:** chronic myeloid leukemia at blast crisis  
**Age:** 29  
**Gender:** female  
**Morphology:** hematopoietic  
**Growth Properties:** suspension

**DNA Profile:**  
- Amelogenin: X  
- CSF1PO: 11,12  
- D1S518: 11,12  
- D7S820: 11  
- TH01: 17  
- TPOX: 10  
- VWA: 14,17

**Karyotype studies:** hypertriploid with 3.6% polyploidy; 73/74(69-77)<3n>XX­X, +1, -2, +5, +6, +8, +13, -14, +17, +17, -18, +22, +mar, del(7)(p15), der(9)(9;22)(q34;q11)x2, i(11q), add(13)(q33), del(17)(p12), der(22)(9;22)(q34;q11)x4.  
**Of note:** 4 copies of Ph+ t(9;22)(q34;q11)

**Citation of Strain**  
American Type Culture Collection  
This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

**Intended Use**

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**Complete Growth Medium**

The base medium for this cell line is RPMI-1640 (ATCC® 30-2001™). To make the complete medium add the following components:  
- 56 mL FBS (ATCC® 30-2020™)  
- 5.6 mL L Glutamine (ATCC® 30-2214™)  
- 0.5 mL 1 µM Imatinib working stock

To make the 1 µM Imatinib working stock aseptically combine the following:  
- 25 mg Imatinib (Sigma catalog # CDS022173-25MG)  
- 45 mL Culture grade water (Hyclone catalog # SH30520)

Remaining Imatinib working stock aliquots should be stored at -80°C. Frozen aliquots can be stored for 1 year.

**Note:** Recommendation: supplement Imatinib at each reseed rather than including in culture medium bottle. The shelflife for Imatinib in culture medium is unknown, so do not use a prepared culture medium bottle for more than 30 days. Additionally, if cell growth appears to slow during cell line expansion, prepare a new bottle of fresh medium.

**Batch-Specific Information**

Refer to the Certificate of Analysis for batch-specific test results.

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**SAFETY PRECAUTION**

ATCC highly recommends that protective gloves and clothing always be used and a full face mask always be worn when handling frozen vials. It is important to note that some vials 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 vessel exploding or blowing off its cap with dangerous force creating flying debris.

**Unpacking & 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.

**Handling Procedure for Frozen Cells**

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 culture medium and spin at approximately 150-400xg for 8 to 12 minutes.  
4. Resuspend cell pellet with the recommended complete medium (start up seeding density: 2.5 to 3.5 x 10⁵ viable cells/mL) 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.

**Seeding densities for Subculture:** Maintain from 2.0 x 10⁵ to 1.0 x 10⁶ viable cells/mL.
Subculturing Procedure

Cultures can be maintained by addition or replacement of fresh medium. Start cultures at 3 \times 10^5 cells/mL and maintain between 3 \times 10^5 and 1 \times 10^6 cells/mL.

Medium Renewal: Add fresh medium every 2 to 3 days (depending on cell density).

Cryopreservation Medium

Complete growth media 90% + DMSO 10%

References

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

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

ATCC® products are warranted for 30 days from the date of shipment, and this warranty is valid only if the product is stored and handled according to the information included on this product information sheet. If the ATCC® product is a living cell or microorganism, ATCC lists the media formulation that has been found to be effective for this product. 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 product. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

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Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: LAMA84-r (ATCC® CRL-3348™)

For the current status of this strain, contact ATCC at 800.638.6597 or 703.365.2700

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