

Banco de Células do Rio de Janeiro

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BCRJ Code: 0212

Cell Line: RAW 264.7

Species: Mus musculus

Vulgar Name: Mouse

Tissue: Blood

Cell Type: Macrophage; Abelson Murine Leukemia Virus Transformed

Morphology: Macrophage

Disease: Abelson Murine Leukemia Virus-Induced Tumor

Growth Properties: Adherent

Sex: Male

Established from an ascites of a tumour induced in a male mouse by **Derivation:**

intraperitoneal injection of Abelson Leukaemia Virus (A-MuLV)

This cell line is a suitable transfection host. The cells will pinocytose neutral red and will phagocytose latex beads and zymosan. They are capable of

antibody dependent lysis of sheep erythrocytes and tumor cell targets. LPS or PPD treatment for 2 days stimulates lysis of erythrocytes but not tumor

cell targets.

Products: lysozyme [1207]

Biosafety: 2

Applications:

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Addtional Info

This cell line is negative for surface immunoglobulin (slg-), Ia (Ia-) and Thy-1.2 (Thy-1.2) This line does not secrete detectable virus particles and is negative in the XC plaque formation assay. Data communicated in Feb. 2007 by Dr Janet W. Hartley, indicates the expression of infectious ecotropic MuLV closely related, if not identical, to the Moloney MuLV helper virus used in the original virus inoculum. The cells also express polytropic MuLV, unsurprisingly based on the mouse passage history of the virus stocks

Culture Medium:

Dulbecco's Modified Eagle's Medium (DMEM) modified to contain 4 mM Lglutamine, 4500 mg/L glucose, 1 mM sodium pyruvate with 10% of fetal bovine serum.

Subculturing:

Subcultures are prepared by scraping. For a 75 cm2 flask, remove all but 10 mL culture medium (adjust amount accordingly for other culture vessels). Dislodge cells from the flask substrate with a cell scraper; aspirate and add appropriate aliquots of the cell suspension into new culture vessels.

Subculturing Medium Renewal:

Every 2 to 3 days

Subculturing

Subcultivation Ratio:

1:3 to 1:6

Culture Conditions:

Atmosphere: air, 95%; carbon dioxide (CO2), 5% Temperature: 37°C

Cryopreservation:

95% FBS + 5% DMSO (Dimethyl sulfoxide)



Thawing Frozen Cells:

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SAFETY PRECAUTION: It is strongly recommended to always wear protective gloves, clothing, and a full-face mask when handling frozen vials. Some vials may leak when submerged in liquid nitrogen, allowing nitrogen to slowly enter the vial. Upon thawing, the conversion of liquid nitrogen back to its gas phase may cause the vial to explode or eject its cap with significant force, creating flying debris.

- 1. Thaw the vial by gently agitating it in a 37°C water bath. To minimize 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 its contents are thawed and decontaminate it by dipping in or spraying with 70% ethanol. From this point, all operations must be performed under strict aseptic conditions.
- 3. For cells sensitive to DMSO, it is recommended to remove the cryoprotective agent immediately. Transfer the vial contents to a centrifuge tube containing 9.0 mL of complete culture medium and centrifuge at approximately 125 × g for 5 to 7 minutes.
- 4. Discard the supernatant and resuspend the cell pellet in the recommended complete medium (see specific batch information for the appropriate dilution ratio).
- 5. Incubate the culture under appropriate atmospheric and temperature conditions (see "Culture Conditions" for this cell line).

NOTE: It is important to avoid excessive alkalinity of the medium during cell recovery. To minimize this risk, it is recommended to place the culture vessel containing the growth medium in the incubator for at least 15 minutes before adding the vial contents. This allows the medium to stabilize at its normal pH (7.0 to 7.6).

References:

1135: Ralph P, Nakoinz I. Antibody-dependent killing of erythrocyte and tumor targets by macrophage-related cell lines: enhancement by PPD and LPS. J. Immunol. 119: 950-954, 1977. PubMed: 894031 1207: Raschke WC, et al. Functional macrophage cell lines tr

Depositors:

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Cellosaurus: CVCL 0493



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