

Banco de Células do Rio de Janeiro

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BCRJ Code: 0045

Cell Line: B16-F1

Species: Mus musculus

Vulgar Name: Mouse; C57BI/6J

Tissue: Skin

Morphology: Mixture Of Spindle-Shaped And Epithelial-Like Cells

Disease: Melanoma

Growth Properties: Adherent

Applications: This cell line is a suitable transfection host.

Tumor Formation:: Yes, in syngeneic mice

Products: MELANIN

Biosafety: 1

Dulbecco's Modified Eagle's Medium (DMEM) modified to contain 4 mM L-**Culture Medium:** glutamine, 4500 mg/L glucose, 1 mM sodium pyruvate and fetal bovine

serum to a final concentration of 10%.

Remove the solution and add an additional 1 to 2 mL of trypsin-EDTA solution. Allow the flask to sit at room temperature (or at 37°C) until the

cells detach. Add fresh culture medium, aspirate and dispense into new culture flasks. NOTE: For more information on enzymatic dissociation and subculturing of cell lines consult Chapter 12 in Culture of Animal Cells, a

manual of Basic Technique by R. Ian Freshney, 6th edition, published by

Remove medium, and rinse with PBS without calcium and magnesium.

Alan R. Liss, N.Y., 2010.

@bcrj_apabcam







Subculturing:



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Subculturing Medium

Renewal:

Every 2 to 3 days

Subculturing

Subcultivation Ratio:

1:10

Culture Conditions:

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

Cryopreservation:

95% FBS + 5% DMSO (Dimethyl sulfoxide)

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 $125 \times g$ 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).

Thawing Frozen Cells:

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References:

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Depositors:

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Cellosaurus:

CVCL 0158

