

## Banco de Células do Rio de Janeiro

#### Data Sheet

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BCRJ Code:	0176
Cell Line:	MOLT-4
Species:	Homo sapiens
Vulgar Name:	Human
Tissue:	Peripheral Blood
Cell Type:	T Lymphoblast
Morphology:	Lymphoblast
Disease:	Acute Lymphoblastic Leukemia
Growth Properties:	Suspension
Sex:	Male
Age/Ethinicity:	19 Year /
Derivation:	A suspension culture derived from the peripheral blood of a 19 year old male with acute lymphoblastic leukaemia in relapse. A stable T-cell leukaemia that forms rosettes with sheep erythrocytes.
Applications:	This cell line is a suitable transfection host.
DNA Profile:	Amelogenin: X,Y CSF1PO: 11, 12, 13 D13S317: 12, 13 D16S539: 11, 14 D5S818: 12 D7S820: 8, 10, 11 THO1: 6, 8 TPOX: 8 vWA: 17, 18
Tumor Formation::	Yes, in untreated nude mice, anti lymphocyte serum treated mice and X- irradiated mice
Products:	high levels of terminal deoxynucleotidyl transferase (TdT) are produced
Biosafety:	1
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Culture Medium:	RPMI-1640 medium modified to contain 2 mM L-glutamine, 4500 mg glucose and 10% of fetal bovine serum.	g/L
Subculturing:	Cultures can be maintained by addition or replacement of fresh med Start new cultures at 4 X 10e5 cells/mL and subculture before the ce density reaches 2 X 10e6 cells/mL.	lium. Il
Subculturing Medium Renewal:	Every 2 to 3 days	
Culture Conditions:	Atmosphere: air, 95%; carbon dioxide (CO2), 5% Temperature: 37°C	
Cryopreservation:	95% FBS + 5% DMSO (Dimethyl sulfoxide)	
Thawing Frozen Cells:	SAFETY PRECAUTION: It is strongly recommended to always wear pr gloves, clothing, and a full-face mask when handling frozen vials. So may leak when submerged in liquid nitrogen, allowing nitrogen to sl enter the vial. Upon thawing, the conversion of liquid nitrogen back gas phase may cause the vial to explode or eject its cap with significat force, creating flying debris. 1. Thaw the vial by gently agitating it in a 37°C water bath. To minim contamination, keep the O-ring and cap out of the water. Thawing s be rapid (approximately 2 minutes). 2. Remove the vial from the water bath as soon as its contents are than and decontaminate it by dipping in or spraying with 70% ethanol. Fr point, all operations must be performed under strict aseptic conditio 3. For cells sensitive to DMSO, it is recommended to remove the cryoprotective agent immediately. Transfer the vial contents to a ce tube containing 9.0 mL of complete culture medium and centrifuge 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 appropriate dilution ratio). 5. Incubate the culture under appropriate atmospheric and temperat conditions (see "Culture Conditions" for this cell line). NOTE: It is important to avoid excessive alkalinity of the medium du recovery. To minimize this risk, it is recommended to place the cultur vessel containing the growth medium in the incubator for at least 15 minutes before adding the vial contents. This allows the medium to at its normal pH (7.0 to 7.6).	otective me vials owly to its ant ize hould nawed om this ons. ntrifuge at r the ture ring cell ire 5 stabilize

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