

Data Sheet

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BCRJ Code:	0373
Cell Line:	MONO-MAC-6
Species:	Homo sapiens
Vulgar Name:	Human
Morphology:	Single, round/multiformed cells or small clusters of cells in suspension, sometimes loosely adherent; 1-5% giant cells.
Disease:	Acute Monocytic Leukemia
Growth Properties:	suspension, sometimes loosely adherent
Sex:	Male
Age/Ethnicity:	64 Year /
Derivation:	Established from the peripheral blood of a 64-year-old man with relapsed acute monocytic leukemia (AML FAB M5) in 1985 following myeloid metaplasia.
Biosafety:	1
Culture Medium:	RPMI 1640 with 2 mM L-glutamine, 10 µg/mL human insulin and 10% of fetal bovine serum.
Subculturing:	Cultures can be maintained by the addition of fresh medium or replacement of medium. Alternatively, cultures can be established by centrifugation with subsequent resuspension at 0,3 X 10 ⁶ viable cells/mL. Maintain cell density between 0,3 X 10 ⁶ and 1.0 X 10 ⁶ viable cells/mL. NOTE: Do not allow the cell concentration to exceed 3 x 10 ⁶ cells/mL.
Subculturing Subcultivation Ratio:	1:3 a 1:5
Culture Conditions:	Atmosphere: air, 95%; carbon dioxide (CO ₂), 5% Temperature: 37°C



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Cryopreservation: 95% FBS + 5% DMSO (Dimethyl sulfoxide)

Thawing Frozen Cells:

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).

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References:

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Depositors:

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