

Banco de Células do Rio de Janeiro

Data Sheet

PAGE 1/3

BCRJ Code: 0262

Cell Line: MEG-01

Species: Homo sapiens

Vulgar Name: Human

Tissue: **Bone Marrow**

Cell Type: Megakaryoblast

Morphology: Lymphoblast

Disease: Chronic Myelogenous Leukemia,

Growth Properties: Mixed, Adherent And Suspension

Sex: Male

Age/Ethinicity: 55 Year /

The MEG-01 cell line was derived in 1983 at the Nagoya University School **Derivation:** of Medicine, Nagoya, Japan from bone marrow cells taken from a patient

in megakaryoblastic crisis of CML.

Applications: This cell line is a suitable transfection host.

Amelogenin: X,Y CSF1PO: 10 D13S317: 8 D16S539: 9 D5S818: 13 D7S820: **DNA Profile:**

11 THO1: 7 TPOX: 8,11 vWA: 16

Biosafety: 1

RPMI-1640 medium modified to contain 2 mM L-glutamine, 4500 mg/L **Culture Medium:**

glucose and 10% of fetal bovine serum.



Banco de Células do Rio de Janeiro

Data Sheet

PAGE 2/3

Subculturing:

Subcultures are prepared by scraping the adherent cells into the medium. From the resulting suspension dilute cells to a concentration 1-2 X 10e5 cells/mL into fresh medium in a new flasks. Keep culture below approximate density of 10e6 cells/mL. Subcultures are prepared by scraping the adherent cells into the medium, and diluting the resulting suspension into fresh medium in new flasks.

Subculturing Medium Renewal:

2 to 3 times per week

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.

Thawing Frozen Cells:

- 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).



Banco de Células do Rio de Janeiro

Data Sheet

PAGE 3/3

23348: Ogura M, et al. Establishment of a novel human megakaryoblastic **References:**

leukemia cell line, MEG- 01, with positive Philadelphia chromosome.

Blood 66: 1384-1392, 1985. PubMed: 2998511

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