

Banco de Células do Rio de Janeiro

Data Sheet

PAGE 1/3

BCRJ Code: 0099

Cell Line: HD-11

Species: Gallus gallus

Vulgar Name: Chicken

Tissue: **Bone Marrow**

Cell Type: Macrophage

Morphology: Macrophage

Disease: Leukemia

Growth Properties: Adherent

Sex: Female

Bone marrow cells Chicken transformed by avian leukemia virus MC29 (Beug et **Derivation:**

al., 1979).

This cells are recognized by monoclonal antibody anti-macrophage of chicken **Products:**

KUL01 (Mast et al, 1998).

Biosafety: 1

Addtional Info: Bone marrow cells of galine transformed by avian leukemia virus.

RPMI-1640 medium modified with 4500 mg/L glucose and 10% of fetal bovine **Culture Medium:**

serum.

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Banco de Células do Rio de Janeiro

Data Sheet

PAGE 2/3

Subculturing:

Remove and discard culture medium. Briefly rinse the cell layer with PBS without calcium and magnesium to remove all traces of serum that contains trypsin inhibitor. Add 2.0 to 3.0 mL of Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 5 to 15 minutes). Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37°C to facilitate dispersal. Add 6.0 to 8.0 mL of complete growth medium and aspirate cells by gently pipetting. Add appropriate aliquots of the cell suspension to new culture vessels. Incubate cultures at 37°C. 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 Alan R. Liss, N.Y., 2010.

Subculturing Medium Renewal:

Every 2 to 3 days

Culture Conditions:

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

SAFETY PRECAUTION: Is highly recommend that protective gloves and clothing always be used and a full face mask always be worn when handling frozen vials. It is important to note that some vials leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the

Cryopreservation:

95% FBS + 5% DMSO (Dimethyl sulfoxide)

liquid nitrogen back to its gas phase may result in the vessel exploding or blowing off its cap with dangerous force creating flying debris. 1. Thaw the vial

Thawing Frozen Cells:

by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the Oring and cap out of the water. Thawing should be rapid (approximately 2 minutes). 2. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions. 3. For cells that are sensitive to DMSO is recommended that the cryoprotective agent be removed immediately. Transfer the vial contents to a centrifuge tube containing 9.0 mL complete culture medium and spin at approximately 125 x g for 5 to 7 minutes. 4. Discard the supernatant and Resuspend cell pellet with the recommended complete medium (see the specific batch information for the culture recommended dilution ratio). 5. Incubate the culture in a appropriate atmosphere and temperature (see "Culture Conditions" for this cell line). NOTE: It is important to avoid excessive alkalinity of the medium during recovery of the cells. It is suggested that, prior to the addition of the vial contents, the culture vessel containing the growth medium be placed into the incubator for at least 15 minutes to allow the medium to reach its normal pH (7.0 to 7.6).



Banco de Células do Rio de Janeiro

Data Sheet

PAGE 3/3

References:

Beug, H., A. von Kirchbach, G. Döderlein, J. -F. Conscience, T. Graf. (1979). Chiken hematopoietic cells transformed by seven strains of defective avian leukemia viruses display three distinct phenotypes of differentiation. Cell 18: 375-90. Mast, J., B.M. Goddeeris, K. Peeters, F. Vandesandle, L.R. Berghman (1998). Characterisation of chicken monocytes, macrophages and interdigitating cells by the monoclonal antibody KUL01. Vet. Imunol. Immunopathol. 61:

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