

Banco de Células do Rio de Janeiro

Data Sheet

PAGE 1/3

BCRJ Code: 0155

Cell Line: M3/38.1.2.8 HL.2

Rattus norvegicus Rattus norvegicus (B cell); Mus musculus (myeloma), rat (B **Species:**

cell); mouse (myeloma)

Vulgar Name: Rat/Mouse

Tissue: Spleen

Cell Type: Hybridoma: B Lymphocyte

Morphology: Lymphoblast

Growth Properties: Suspension

Mac-2 and Mac-3 are present on 69% of macrophages and 0% to 2% of **Applications:**

thymocytes

immunoglobulin; monoclonal antibody; against mouse macrophage antigen **Products:**

(Mac-2, 32000 dalton glycoprotein)

Biosafety: 1

Addtional Info:

Spleen cells were fused with NS-1 myeloma cells. The Mac-2 antigen is not expressed on bone marrow cells. Like Mac-3, Mac-2 appears to be expressed on

the monocytic line of differentiation at a stage after divergence from the granulocytic series. Mac-2 and Mac-3 are present on 69% of macrophages and

0% to 2% of thymocytes. Expression of Mac-2 is increased during the differentiation from monocyte to activated peritoneal macrophage.

RPMI-1640 medium modified to contain 2 mM L-glutamine, 1 mM sodium **Culture Medium:**

pyruvate, 4500 mg/L glucose and 10% of fetal bovine serum.

Cultures can be maintained by the addition of fresh medium or replacement of **Subculturing:** medium. Adherent cells can be dislodged by scraping and cultures established by

centrifugation with subsequent resuspension at 1 to 2 X 10(5) viable cells/ml.



Banco de Células do Rio de Janeiro

Data Sheet

PAGE 2/3

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)

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 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 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

Thawing Frozen Cells:

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).

References:

Ho MK, Springer TA. MAC-2, a novel 32,000 Mr mouse macrophage subpopulation-specific antigen defined by monoclonal antibodies. J. Immunol. 128: 1221-1228, 1982. PubMed: 6173426 Springer TA. Monoclonal antibody analysis of complex biological systems. Combination of cell hybridization and immunoadsorbents in a novel cascade procedure and its application to the macrophage cell surface. J. Biol. Chem. 256: 3833-3839, 1981. PubMed: 7217058

Depositors:

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ATCC:

TIB-166









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Data Sheet **PAGE 3/3**





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