

## Banco de Células do Rio de Janeiro

## Data Sheet

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**BCRJ Code:** 0105

Cell Line: HNK-1 [HNK1, Leu7]

Mus musculus (B cell); Mus musculus (myeloma), mouse (B cell); mouse **Species:** 

(myeloma)

**Vulgar Name:** Mouse

Tissue: Spleen

Cell Type: Hybridoma: B Lymphocyte

Morphology: Lymphoblast

**Growth Properties:** Suspension

**Derivation:** Spleen cells were fused with P3X63Ag8.653 myeloma cells.

immunoglobulin; monoclonal antibody; against human natural killer (NK) cells **Products:** 

and antigen dependent killer (K) cells (CD57)

**Biosafety:** 1

Animals were immunized with a membrane extract of the human lymphoblastoid cell line HSB-2. Spleen cells were fused with P3X63Ag8.653 myeloma cells. The **Addtional Info:** antibody also reacts with glycoproteins present on Schwann cells,

oligodendrocytes and embryonic neurons. The cells will not grow if the medium

lacks 2-mercaptoethanol.

RPMI 1640 medium with 2 mM L-glutamine, 4.5 g/L glucose, 0.02 mM 2-**Culture Medium:** 

mercaptoethanol and 20% of fetal bovine serum.

Cultures can be maintained by addition of fresh medium. Alternatively, cultures can be established by centrifugation with subsequent resuspension at 1 x 10e5 **Subculturing:** viable cells/mL. Maintain cultures at a cell concentration between 1 x 10e5 and 1 x 10e6 cells/mL. NOTE: Do not allow the cell concentration to exceed 1 x 10e6

cells/mL. Population Doubling Time about: 24-30 hours

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**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 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).

**Thawing Frozen Cells:** 

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to 7.6).





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References:

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**Depositors:** 

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ATCC:

**TIB-200**